CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. 220 Broadway, New York, November 14, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

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RAILWAYS.

ATLANTA, BIRMINGHAM & ATLANTIC.—We are officially informed that this company is about to commence construction work between Bessemer and Birmingham, Ala. The work of construction is already well advanced towards Bessemer. There are about 13 miles of main line, and two yards to build in this distance. H. M. Atkinson, Electric & Gas Bldg., Atlanta, Ga., is Pres.; Alex. Bonnyman, Empire Bldg., Atlanta, Ga., Ch. Engr. Surveys have been made, and right-of-way obtained. Work will be let some time this month. The yard work will have to be done with steam shovels. Practically all of the main line work will be team work. Previously noted.

BALLINGER & ABILENE.—W. J. McDaniel, Ch. Engr., Ballinger, Tex., informs us that contracts for building this railroad will be let between Dec. 1st and Jan. 1st. It will be about 54 miles long, and will extend from Ballinger to Abilene through Taylor and Runnels Counties. Right-of-way and capital are now being obtained. Surveys are made. As noted on Oct. 10th, "a company is being promoted at Ballinger, Tex., to construct a railway from Ballinger to Abilene. Capital stock is $200,000, all paid in. W. J. McDaniel is Engr.-in-Charge. The promoters include C. A. Doose, Pres., and Dan Baker, Cashier of the First National Bank of Ballinger; Jos. Wilmeth, Cashier Citizens' National Bank; C. S. Miller, Pres., and E. D. Walker, Cashier of the Ballinger State Bank and Trust Co.; W. J. Miller, Secy. Arctic Ice and Fuel Co.; G. M. Vaughan, Pres. Missouri Milling Co.; Jack McGregor, hardware merchant; Judge C. H. Willingham, Judge John I. Guion, C. O. Harris, attorney, of Ballinger; and R. K. Wylie and Cicero Smith, of Mineral Wells. The general offices of the company will be located at Ballinger, Tex. Work will begin here and the shops, roundhouses, etc., will be established here."

BEAVER VALLEY & NORTHWESTERN.—Survey is being made from Beaver, Okla., westward. This proposed line will extend from Oklahoma City, Okla., to La Junta, Colo., 400 miles, via Woodward and Beaver, Okla., and Richfield, Kan. The first section of the line, from Beaver west to a connection with the Chicago, Rock Island & Pacific Ry., is to be built at once, stock being subscribed by the farmers and business men along the line. The company will do its own construction work. Curves will be light; 60-pound rails will be used. J. Blanchard is Pres.; Ray Barnes, Vice-Pres.; A. F. Rock, Secy.; J. W. Webb, Treas.; Albert Wellborn, Counsel, and Joseph G. Trindler Ch. Engr., all of Beaver, Okla. Noted on Oct. 31.

BUFFALO, ROCHESTER & EASTERN.—Surveys for the route of this line are nearly completed, it is reported, between Buffalo and Troy, N. Y., and the company will apply to the Public Service Commission for a certificate of necessity as soon as detailed maps can be made. The route established by the surveys avoids the hills of the Mohawk Valley and is said to be the lowest grade possible. Plans for terminal facilities at Buffalo will not be finished until the courts decide on the application of the Buffalo, Lake Erie and Niagara R. R., a terminal line, to build a freight belt line around Buffalo, as the latter company will furnish terminal facilities if granted the right to build its belt line. Noted on Oct. 17.

CASCADE VALLEY.—W. A. C. Rowse, Pres., 121 Eleventh St., Seattle, Wash., advises us tnat right-of-way is being cleared for proposed line from Rockport, Wash., to Horseshoe Basin Creek, a distance of 35½ miles. Construction work will be done by the company. L. M. Rice is Ch. Engr., Pacific Block, Seattle. Surveys are made and right-of-way is practically obtained. Steam will be the motive power used at present, to be replaced later with electricity. Noted on Oct. 10.

CENTRAL PENNSYLVANIA LUMBER CO. (Wellsboro, Pa.)—This company has awarded a contract to LEONARD LACHAT, Lock Haven, Pa., for the construction of a railroad several miles in length to be built in Tioga County, where large tracts of timber will shortly be opened up. Railroad equipment will be purchased later by the lumber company.

COPPER RIVER & NORTHWESTERN.—M. J. HENEY, Colman Bldg., Seattle, Wash., has been awarded the contract to build the Copper River & Northwestern R. R. from Cordova to the upper Copper River country in Alaska.

GRAND TRUNK PACIFIC.—Announcement has been made that the CANADIAN STEEL & WIRE CO., Hamilton, Ont., has received the contract for approximately 1,000 miles of fencing for the G. T. P. between Edmonton, Alta., and Winnipeg, Man.

JEFFERSON CITY, ALBUQUERQUE & SAN DIEGO VALLEY.—This company has been chartered in Oklahoma, with a capital of $7,000,000, to build a railroad from Springfield or Jefferson City, Mo., through Missouri, Kansas, Oklahoma, New Mexico and Arizona, to San Diego, Cal., about 1,600 miles. Headquarters will be at Carthage, Okla. The incorporators are: J. H. Langston and O. S. Jent of Guymon, Okla.; J. H. Harris, of Carthage, Okla.; W. F. Bort, of Wichita, Kan.; and C. R. Wright, of Liberal, Kan.

KENTUCKY.—J. T. Edwards, of Providence, Ky., states that preparations to build a railroad from Providence to Dawson, Ky., 19 miles, have been discontinued for the present. Survey is made. Construction will begin next spring. Noted on Oct. 24.

MEXICAN RY.—It is announced by Walter Morcom, Mgr., City of Mexico, that the plans for the new terminals to be erected at Vera Cruz for the accommodation of the several railroads that enter that port are nearly completed and that the contract will be let within the next 30 days. Company is now being formed in London, England, and will be called the Vera Cruz Terminal Co. It will have a capital stock of $6,000,000 (Mexican), or $3,000,000 gold, and that amount will be expended in the erection of the terminal works. The company will be composed of the Mexican (Vera Cruz), the Interoceanic, the Vera Cruz & Pacific and the Alvarado Ry. companies. The bonds of the terminal company will be guaranteed by these four railroads. The particular object of the proposed improvements is to facilitate and cheapen the handling of freight through that port.

MISSOURI PACIFIC.—This company has awarded to L. J. SMITH, Commerce Bldg., Kansas City, Mo., the contract for ballasting with gravel all the track of the St. Louis, Iron Mountain & Southern Ry. in Arkansas and Louisiana, at a cost of $1,500,000. It will give employment to 400 men and eight months' time will be required to complete the job. In addition to steam shovels and other equipment, 16 locomotives will be required.

NEVADA.—We are officially advised that the plans of the Nevada Hills Mining Co. to take steps towards building a railroad to Fairview from Fallon, Nev., a distance of about 45 miles, has been postponed for the present. As noted on Oct. 10th, a committee, consisting of Windsor V. Rice, W. H. Clark, John T. Hodson and John A. Kirby, was appointed to go into the matter of securing rights-of-way, make surveys and obtain estimates on the cost of construction, etc.

OKLAHOMA & GOLDEN CITY.—We are officially informed that proposition has been submitted which is under consideration providing that $100,000 a month be furnished for construction. All preliminaries will be disposed of within the next four weeks. Surveys have not been made yet. Capital and right-of-way are partly secured. W. S. Pope is Pres., Jefferson City, Mo.; W. K. Palmer, Kansas City, is Ch. Engr. John A. Griesel is Gen. Mgr., Golden City, Mo. Contracts may be let next February. As planned, the company will build a railroad from Pawhuska, Okla., to Jefferson City, Mo., 265 miles, with several branches as feeders, touching all the principal towns, timber, coal, oil, gas and lead and zinc mines, in Oklahoma and Missouri. "When completed it will put the oil fields of Oklahoma many miles nearer the big markets of the East than at present, also the extensive coal fields and the lead and zinc district of southwest Missouri, the timber lands of central Missouri and the large deposits of iron that abound all through central and southern Missouri." Previously noted.

OKLAHOMA, MEXICO & PACIFIC.—Incorporated in Oklahoma with $500,000 capital. Headquarters will be at Oklahoma City. The company proposes to build a line from Oklahoma City southwest through Oklahoma, Canadian, Caddo, Washita and Kiowa Counties to Hollis, in Greer County, 200 miles. The estimated cost of the proposed line is $35,000 a mile. The incorporators include: J. E. Kirkes, O. S. Rice and T. H. Lindlay, of Oklahoma City; F. D. Kroeger and J. M. Kroeger, of Guthrie, Okla.

PITTSBURG, BINGHAMTON & EASTERN.—The Harrisburg (Pa.) "Patriot" states that final plans are being prepared for "a new line to be built from Cedar Ledge to the coal mines at English Center. The road as now planned runs along the north side of the Susquehanna River and in Clinton County will pass through or on the opposite side of the river from Keating, Cook's Run, Westport, Shintown, South Renovo, Paddy's Run, North Bend, Hyner, Ritchie, Glen Union, Ferney, East Ferney, Farrandsville, Queens Run, Lock Haven, Charlton, Avis, and then to Jersey Shore, Larrys Creek, Linden, West Williamsport,

and then in a northeasterly direction to Binghamton, N. Y. Two branch lines, which will tap rich bituminous coal fields, will connect with the main line, one called the Moshannon branch, running from that place to Philipsburg and eventually to Coalport, and the other from Cedar Ledge, in Bradford County, to Oregon Hill and English Center, in Lycoming County."

SASKATOON, SASKATCHEWAN, PEACE RIVER & DAWSON.—Application will be made at the next session of Parliament for the incorporation of this company, which proposes to build a line from Saskatoon, Sask., northwest via Langham, Athabasca Landing and Peace River Landing in Alberta to the crossing of the Dease River, B. C., about 15 miles west of its outlet into Laird River, thence by the most direct route to Dawson, in Yukon Territory. Smith & Britton, Confederation Life Bldg., Ont., are the Attys.

SOUTHERN UTAH.—G. S. Payne, Secy., Salt Lake City, Utah, advises us that grading contracts are being let now and that construction contracts will be let as soon as possible for building this railway. As previously noted, this company was recently incorporated in Utah to build a railroad from a connection with the Rio Grande Western Ry., near Price, to the head of Miller Creek, a distance of 20 miles. Capital stock, $100,000, of which $20,000 has been subscribed. Officers: Pres., A. A. Sweet; Vice-Pres., H. L. Thomas; Secy. and Treas., G. S. Payne; Ch. Engr., L. P. Elliott. Headquarters, Salt Lake City. Surveys are made and right-of-way and capital are secured.

TAYLOR, SOMERVILLE & HOUSTON.—This company, which proposes to build from Taylor to Somerville, Tex., 65 miles, has elected officers and secured a large portion of the right-of-way. The officers are: J. A. Thompson, Pres., Taylor, Tex.; M. R. Hoxie, Vice-Pres., Lexington, Tex.; T. W. Morse, Secy. and Treas., Taylor.

VALLEY RIVER.—We are officially advised by L. E. Shull, Secy. and Gen. Mgr., Mill Creek, W. Va., that this company is now purchasing material, etc., to build a railroad from Mill Creek to Clover Lick, W. Va., 43 miles. Surveys are made. Right-of-way and capital are partly obtained. W. A. Dromgold is Pres., York, Pa.; John Alden is Ch. Engr., Elkins, W. Va.; J. G. Hoffman, Jr., Vice-Pres. Headquarters, Mill Creek, W. Va.

WASHINGTON.—S. H. Anshel, of Metaline, Wash., is promoting a scheme to build a railway to connect Metaline with Colville, a distance of 45 miles.

WATERLOO, PELLA & SOUTHWESTERN.—We are officially informed that tax aid has been voted for this proposed railway as follows: $36,000 at Charlton, Iowa; $50,000 at Pella, and $55,000 at Grinnell. It is hoped to raise $350,000 to $400,000 along the line. Noted fully on Oct. 31.

WENATCHEE VALLEY & NORTHERN.—G. E. Lamb, Secy., Clinton, Iowa, advises us that L. M. RICE & CO., Pacific Block, Seattle, Wash., have contract for building this railway between Leavenworth, Wash., and Lake Wenatchee, 30 miles. Work is about half completed. Petrel Davis is Vice-Pres., Leavenworth, Wash.

ELECTRIC RAILWAYS.

MIDDLETOWN, CONN.—Regarding the plan of the Consolidated Ry. Co. to construct an extension from Middletown to Hartford next spring, as noted on Oct. 31st, we are officially advised that "the intention is to place this work under contract early next spring, and arrangements are being made with that end in view. These calculations, however, may be entirely upset, should the present financial condition prevail at that time, with the consequent difficulty of securing funds." The line now connects Middletown and Portland, twelve miles. C. H. Chapman is Supt., Middletown.

NEW BRITAIN, CONN.—The Connecticut Ry. & Lighting Co. may build an extension connecting with Elmwood and Hartford. L. S. Risley is Supt., New Britain.

LIMA, N. Y.—It is reported that the Lima-Honeoye Electric Light & R. R. Co. will let contracts during the next six months for the construction of about 26 miles of track. E. D. Watkins is Gen. Mgr., at Lima.

NEW CASTLE, PA.—An extension of time until May 1st has been granted to the Beaver Falls & New Castle St. Ry. Co. Surveys are under way and right-of-way is being secured. C. J. D. Strawhecker, of Zelienople, Pa., and Jordan Johnson, of Ellwood City, Pa., are interested.

ROCKWOOD, PA.—The Rockwood & Bakersville Ry. Co. plans to begin grading for its proposed electric railway at once. Survey has been made. The line will connect Rockwood, Roberts (Somerset post-office) and Bakersville, Pa. John C. McSpadden, Rockwood, is Pres.

BRISTOL, TENN.—The Bristol & Kingsport Ry. Co. has been chartered in Tennessee with capital of $10,000 to build a railway from Kingsport to Bristol, Tenn., via Blountville, about 25 miles. Although the company has been chartered as a steam road, acting under the authority of the acts of 1903, the promoters expect to also operate this as an electric line. The necessary water power will be developed at Kingsport. It is planned to let grading contract within six months. The incorporators include ex-Governor John I. Cox, James B. Cox, F. Powell, F. H. Cothran and Samuel L. King, of Bristol. Survey is to begin within ten days. Officers are as follows: J. I. Cox, Pres.; S. L. King, Vice-Pres.; F. Powell, Secy. and Treas.; F. H. Cothran is Ch. Engr.; J. B. Cox, General Counsel.

PLYMOUTH, IND.—A 40-year franchise has been granted by the City Council to the Indianapolis, Logansport & South Bend Traction Co. for a right-of-way over Michigan St. The Logansport-Plymouth division will be built at once, it is stated, and cars will be running in 18 months. As noted on Oct. 31st, this company plans to build an interurban line from Logansport to South Bend. Horace J. Crismond and J. G. Power, of Logansport, Ind.; Prof. Jerome J. Greene, of Notre Dame; Samuel S. Perley, Alexis Coquillard, Virginius Nicar, E. P. Taylor, Hugh H. Tansey and T. P. Moredock, of South Bend, are the Directors. Officers are as follows: S. S. Perley, Pres.; V. Nicar, Vice-Pres.; T. P. Moredock, Secy.-Treas.

BELLEVILLE, ILL.—The Belleville & Interurban Railway Co. has been incorporated, with principal office in Belleville, and with a capital stock of $100,000. The road is to be constructed from Belleville to Smithton, St. Clair County. The incorporators and first board of directors are: Jacob Gundlach, Jr., Benjamin H. Gundlach, R. W. Hofsommer, George Hippard and Thos. A. Bell.

EDWARDSVILLE, ILL.—The St. Louis & Staunton Ry. Co. has been incorporated in Illinois to build and operate an electric railway from a point in or near Edwardsville, Madison County, to a point in or near Staunton, Macoupin County, Ill. This is a subsidiary line of the Illinois Traction System for the purpose of building a belt line for freight traffic around Edwardsville. Principal office, Champaign, Ill. Incorporators: George M. Mattis, W. H. Carnahan, Charles Zilly, B. E. Bramble and R. H. Watson, Jr.

BOONE, IOWA.—John S. Cook, Secy. of the Boone, Webster City & Interurban Ry. Co., Boone, advises us that most of the necessary right-of-way is obtained and survey made for proposed line between Boone and Webster City, a distance of 31 miles. Noted on Oct. 24. C. B. Judd is Ch. Engr., Atlantic, Iowa.

EMMETSBURG, IOWA.—The Spirit Lake, Emmetsburg & Fort Dodge Ry. Co. has secured greater portion of its right-of-way. T. F. McCartan, of Pocahontas, Iowa, is Pres.; M. H. Miller, of Fort Dodge, Iowa, is Vice-Pres. Noted fully on Sept. 19th.

DAVENPORT, IOWA.—Mrs. Alice M. Butler, of this city, is promoting an electric railway project, to be known as the Davenport & Dubuque Ry. Co., which will be organized soon to build a railway to connect Davenport, Maquoketa and Dubuque. T. M. Jenkins, Mgr. of the National Construction Company, of St. Louis; O. Sampson, Theo. Daudel, J. L. Kinley, of Andrew, Iowa; C. W. Farr, C. F. Goller and Chas. von Schrader, of Maquoketa; W. S. Hill, Thomas and William Hughes, of Elwood; and Julius Rheimers, of Grand Mound, Iowa, are reported to be interested.

DES MOINES, IOWA.—The Des Moines, Winterset & Creston Interurban Ry. Co. is now securing funds and right-of-way for its proposed line, which will connect Creston, Macksburg, Winterset and Des Moines.

The Des Moines City Ry. Co. has under consideration a plan to build a number of interurban lines around the city of Des Moines. To carry out this idea there would have to be constructed the following lines in addition to those already constructed: Des Moines to Nevada, eventually extending the line to Eldora; Des Moines via Carlisle to Indianola and Knoxville; Des Moines via Pella to Oskaloosa; Des Moines via Winterset to Creston; Des Moines via Dallas Center to Adel. Jefferson S. Polk is Pres.; G. B. Hipple is Mgr. and Pur. Agt., 607 Mulberry St., Des Moines.

A company will be organized under the title of the Iowa State Union Ry. Co., it is said, to build an electric railway from Des Moines to Elkader, Iowa, about 160 miles. John A. Cox, of Chicago, is promoting this railway.

PARSONS, KAN.—C. D. Moore, of Huntington, W. Va., has been granted a street railway franchise in Parsons. Press reports state that, as a guarantee that work will be started within 90 days and that five miles will be completed and in operation within a year, $25,000 must be deposited with the city treasurer by the company. It is stated that the line will be part of an interurban system later to be built by the same interests.

RED LODGE, MONT.—Kimball Russell, Engr., has submitted report to the Red Lodge Board of Trade regarding the plan to build an electric railway from Red Lodge to the Bear Creek mines and the town of that name, a distance of about ten miles. Estimated cost of construction is placed at $196,000. Noted on Oct. 17th.

BOZEMAN, MONT.—Citizens of Bozeman, at a mass meeting held on Nov. 1st, subscribed over $21,000 towards a $30,000 bonus for an electric interurban system for the Gallatin valley, with terminal in Bozeman. The farmers along the proposed route, which will first be built to Salesville, and thence to Three Forks, a distance of 46 miles, have already subscribed nearly $50,000, in addition to donations of a right-of-way. The total sum asked is about $100,000. Among those interested are C. S. Hartman, E. Brook Marin, G. D. Pease, of Bozeman.

EXCELSIOR SPRINGS, MO.—Dr. G. P. Lingenfelter, Pres. of the St. Joseph, Excelsior Springs & Lexington Ry. Co., Drawer 3737, Denver, Colo., advises us that construction contracts probably will be let about Jan 1st. This company proposes to build from Excelsior Springs to Vibbard, six miles. Motive power will be steam, electricity or gasoline motors. Edgar Main is Ch. Engr., Liberty, Mo. Noted on Oct. 17th.

KANSAS CITY, MO.—The Jackson County Court has confirmed the granting of right-of-way for the operation of the Blue Valley Elec. Ry. Co.'s proposed line on the Blue Ridge Road, 49th St. and Swope Park Highway, Kansas City, to a point east of the Blue River. It is stated that the road has been financed and that construction will be started at an early date. The officers of the company are: Alexander Massey, Pres.; P. G. Walton, Anthony, Kan., Vice-Pres.; Joseph S. Chick, Secy. and Treas., Dwight Bldg., Kansas City; C. A. Braley, 1302 Linwood Ave., Kansas City, Chief Counsel; D. W. Pike, 3018 Baltimore Ave., Kansas City, Ch. Engr. The above, together with C. H. Sharpe, W. E. Winner, E. S. Yoemans, M. F. Simmons, John Georgen and H. E. Chamberlin, form the Board of Directors.

ST. JOSEPH, MO.—H. G. Krake, Secy. of the Missouri Valley Traction Co., St. Joseph, advises us that this company will build an interurban line from St. Joseph to Mirabile and to Excelsior Springs. Preliminary work is now under way. The Board of Directors is made up of A. M. Bates, W. A. J. Bell and George C. Kidd, of Excelsior Springs, Mo.; Judge L. L. Frost, George M. Morris and J. R. Sprague, of Mirabile, Mo.; Thos. B. Campbell, H. G. Krake and John I. McDonald, of St. Joseph, Mo. The officers are Thos. B. Campbell, Pres.; Judge L. L. Frost, First Vice-Pres.; W. A. J. Bell, Second Vice-Pres.; A. M. Bates, Treas.; H. G. Krake, Secy. Principal place of business, Board of Trade Bldg., St. Joseph.

MEXICO, MO.—S. L. Robison, Pres. of the Mexico & Perry Traction Co., has announced that the contract for grading the new electric road between Mexico and Perry had been let to J. M. WOLF, of Collinsville, Ill., and that work has been commenced. The new road traverses a rich farming country, and will be 25 miles long. It will be in operation within a year. The Mexico & Perry Traction Co. was incorporated last April with a capital stock of $850,000. S. L. Robison is Pres.; W. Gaither, Secy. and Treas.; T. T. Henderson, Asst. Secy.; C. C. Heiser, First Vice-Pres.; C. W. Mundy, Second Vice-Pres.; W. J. Bates, Third Vice-Pres. Directors are T. Kunkel, G. Zaugg, Ashby Botts, W. M. W. Braden.

DENTON, TEX.—It is announced by H. M. Griffin, Pres. of the Denton Interurban Railway & Power Co. that the finances for the construction of the proposed interurban electric line between Fort Worth and Denton have been arranged for. The same company owns and operates the electric street railway system in the town of Denton, with seven miles of track.

OKLAHOMA CITY, OKLA.—The Oklahoma & Southwestern Interurban Railway Co. has been chartered to build a line from Oklahoma City to Hollis, Okla., 190 miles, at a cost of $10,000 per mile. Capital, $2,250,000. The incorporators are H. W. Curry, of Eaton, Ohio; J. N. Street, of Bloomington, Ill.; C. A. Schwartz, J. P. Van Allen, S. W. Johnson, O. D. Reed and C. E. Richardson, all of Frederick, Okla.; Frank B. Lucas, Samuel Ecker, Jr., J. E. Woodworth and Thomas R. Clift, all of Guthrie, Okla.

NORTH YAKIMA, WASH.—The Yakima Valley Transportation Co. will have one mile of its line completed and in operation by Jan 1st. This must be done in order to comply with the terms of the franchise. The company is now completing the final transfer of the franchises, right-of-way, etc., of the Yakima Inter-Valley Traction Co., which was incorporated over a year ago to build a 24-mile line up the Yakima Valley to Moxee and other points. With the completion of this transfer the Yakima Valley Transportation Co. will take immediate steps towards the construction of the first 25-mile section of its proposed 125-mile interurban system in the Yakima Valley. It is expected to complete this portion of the system in 1908. A rich agricultural and fruit district will be served by the building of this line and its several branches. E. M. Kenley is Ch. Engr. Noted on Oct. 3d.

SEATTLE, WASH.—We are officially advised that the Seattle & Tacoma Short Line Ry. Co. may let contracts about Dec. 1st for constructing its proposed line, which will connect Seattle and Tacoma, Wash. It will be 30 miles long. Surveys are made and right-of-way is 75% obtained. Capital is partly secured. M. J. Wightman is Ch. Engr., American Bank Bldg., Seattle. I. A. Nadeau is Vice-Pres., Seattle. Noted fully on Oct. 31. The first regular meeting of the directors of this company was held in Seattle on Oct. 21, when the following officers were elected: Pres., T. Coleman Du Pont, Wilmington, Del.; First Vice-Pres., I. A. Nadeau, Seattle; Second Vice-Pres., Merle J. Wightman; Secy., C. E. Muckler, Tacoma; Treas., P. C. Kauffman, Tacoma. It is planned to have the road in operation in time for the Alaska-Yukon-Pacific Exposition in 1909. HAMILTON & ROLLINS are reported to have contract for grading first five miles of this line.

SAN FRANCISCO, CAL.—Thomas P. Woodward, City Engr., is stated to have submitted to the Board of Supervisors estimates of the cost of constructing a municipal street railway system over the route of the Geary St., Park & Ocean R. R., which has for several years been operating under a permit without a franchise. Two estimates are given. Each is over the entire route, extending from Market St. out Geary St., Point Lobos Ave. and Tenth Ave. to Fulton St. The original cost of reconstructing the line, using portions of the present roadbed, etc., is estimated at $865,000, to which is added for necessary replacements during the first five years of service $655,000, or a total of $1,520,000. The estimate for an entirely new road is $1,272,000.

MILNER, IDAHO.—Construction will be commenced at once on the proposed electric line to Wendell and Gooding, to be built by the Milner & North Side Elec. R. R. Co. As noted on Sept. 12th, we were officially informed that the proposed line "will run from Milner in a northwesterly direction through Jerome and Wendell to the Oregon Short Line at a point near Gooding, about 65 miles long. Surveys are made and capital and right-of-way are secured. A few small grading contracts have been let. The railroad will be built through a large irrigation project on north side of Snake River. A bonus per acre has been allowed by the State of Idaho to this company [illegible] building the line. D. C. MacWatter [illegible] Milner, is Pres.; P. S. A. Bickel, Milner, [illegible] Engr. The incorporators are Fentres [illegible] D. C. MacWatters, Herbert R. Gran[illegible] Henry K. Belmont, and C. M. Hapgood, [illegible]."

LIGHT AND POWER [illegible]NTS.

(* *denotes that this work is [illegible] Engineering News.*)

SPRINGFIELD, MASS.—The [illegible] electmen have awarded the contract to [illegible] the street lighting system by the ad[illegible] of ten new lamps and to extend the li[illegible] for residential lighting to the FITZPATRIC[illegible] ELECTRIC CO., of Springfield.

SODUS, N. Y.—Plans have be[illegible] made by the Rochester & Sodus Bay Ry. [illegible] for extensive repairs and alterations to [illegible] substation either at Sodus or Ontario. [illegible] Danforth, Rochester, is Gen. Mgr.; [illegible] Matthews, Rochester, is Ch. Engr.

CRESSON, PA.—The Cresson [illegible] Electric Light Co. is contemplating instal[illegible] an additional 60-KW., 1,100-volt, 133-[illegible] belt-driven generator to furnish ele[illegible]ity for operating the arc lighting system [illegible] street lighting, which will be put in ope[illegible] Jan. 1. A day service will be establi[illegible] after that date. The company has a co[illegible]t with the city to furnish 21 arc lamps [illegible] 1,200 c. p. at $60 a lamp per year. Eli [illegible]Connor, Cresson, is Mgr.

NORRISTOWN, PA.—We are offi[illegible]lly advised that on Nov. 5, the city voted in favor of issuing $300,000 of bonds. The proceeds will be used for municipal work including an addition to the lighting system. Work will be started this year. W. G. Risdon, Norristown, is Supt. municipal electric plant; S. Cameron, Corson, is Boro. Engr.

DELTA, PA.—We are officially advised that the AMBURSEN HYDRAULIC CONSTRUCTION CO., 176 Federal St., Boston, has been awarded contract by the Delta Electric Power Co. of Delta, Pa., for a reinforced concrete dam in southeastern Pennsylvania for supplying power to the slate quarries and other industries in that district. A similar contract has been closed by the same company with the Big Horn Power Co., of Chicago, for a dam on the Big Horn River in Wyoming. These two dams are almost similar in dimensions and characteristics. Each is situated in a deep narrow gorge where there is no possibility of a detached or independent power house. The Wyoming dam will create a head of 60 ft. and the Pennsylvania dam of 65 ft. and both structures are about 70 ft. high above foundations. The power house in both cases will be under the roadway of the dam and protected by an inner shell. The height of the dam allows ample space for a power house together with travelling crane, switchboard, office, etc. Both dams will be of the half apron type. Work has been commenced and will be carried on throughout the winter. It is expected to complete both dams before the spring floods. Edward D. Ruth, Lancaster, Pa., is Secy. and Mgr. of the Delta Electric Power Co.

BALTIMORE, MD.—It is stated that the trustees of University of Maryland have awarded contract to MORROW BROS., 218 West Saratoga St., for construction of nurses' home and power-house. Sunderland Bros., Ouray Bldg., Washington, D. C., are Archs.

RICHMOND, VA.—The Mayor has approved the ordinance providing for the issue of $100,000, the first instalment needed for rehabilitation of the city gas plant. To thoroughly improve the plant it will require about $350,000. Several contracts have been awarded. W. E. Cutshaw, is City Engr.

RICHMOND, VA.—The city is considering erection of electric plant to generate electric power for use at new water pumphouse, and possibly also for lighting streets and parks. W. E. Cutshaw is City Engr.

LYNCHBURG, VA.—C. W. HANCOCK & SONS have contract, it is stated, for constructing a stone and concrete dam, 200 ft. long and 35 ft. high, across Cedar Creek on the Natural Bridge property. It is planned to develop about 100 HP., which will be used for operating machinery for manufacturing electric current, by which grounds will be lighted. C. I. Johnson, Wingina, Va., is Pres. of company owning the resort.

SMITHFIELD, N. C.—We are officially advised that the Holmboe Co., Lincoln Savings Bank Bldg., Louisville, Ky., is preparing plans and specifications for water-works, sewer and electric light systems for Smithfield. After the estimated cost has been prepared, a bond election will be held. If the election is carried, work will be started immediately.

SPARTANBURG, S. C.—The "Manufacturers' Record" states Southern Power Co. is having plans and specifications prepared for construction of steam power electric plant to have capacity of 50,000 HP., the plant, when completed, to cost about $2,000,000, it is stated. It will be built in sections as needed, and construction probably will begin during 1908. Turbines of 10,000 HP. will be used. The plant will augment during low-water periods the various water-power electrical plants which the company is building for transmitting electricity in North and South Carolina. The Southern Power Co. has completed two electric plants furnishing 40,000 HP., and has two under construction to furnish 60,000 HP. Eventually more than 200,000 HP. will be distributed to manufacturing enterprises in the two Carolinas. General offices of company are at Charlotte, N. C.; W. S. Lee, Jr., is Engr.-in-Charge.

COLUMBUS, GA.—Charles E. Main and John E. Porter, Consult. Engrs. of Stone & Webster, 84 State St., Boston, Mass., have inspected power-house at the City Mills with view to making improvements to increase capacity of the plant, which is leased by the Columbus R. R. Co. They have also inspected water-power plant at the Eagle

& Phenix Mills, which is to be improved. F. E. Reidhead, Columbus, is Mgr. of the Columbus R. R. Co.

TUSCALOOSA, ALA.—See under Buildings.

JACKSON, ALA.—Bids will be received about Dec. 1 for construction of a dam across Bassett's Creek, to develop additional power for the electric light and proposed water-works systems of the Jackson Light & Power Co. B. H. Warren, Pres.

BLUFF CITY, TENN.—See under Manufacturing Plants.

CLEVELAND, OHIO.—It is stated that J. W. Kelly, 1916 Scranton Road, Cleveland, Ohio, will purchase the following electrical machinery: 200-KW. 220-250-volt generator direct connected to engine; one 300-KW. 550-volt generator direct connected to engine; one 150-KW. 6-pole 550-volt belted railway generator; 20 direct-current 220—250-volt motors ranging from 5 to 25 HP. in size.

YOUNGSTOWN, OHIO.—Miller & Ford, Dollar Bank Bldg., will prepare preliminary plans and specifications for an addition to the Banner Electric Co., on South Market St. The contracts will be let shortly and work commenced in the spring.

INDIANAPOLIS, IND.—The Citizens' Gas Co., recently organized, has purchased the mains of the Consumers' Gas Trust Co. (natural gas mains) for $409,061 and will proceed at once to construct and equip an artificial gas plant. George Vonegut is Pres.; J. D. Forest, Secy.

GRAND HAVEN, MICH.—This city will advertise for bids soon for furnishing one 150-KW. 2-phase, 2,300-volt alternator; one 220-HP. engine for direct connection to this alternator; a series alternating-current series enclosed type arc lighting system, complete with switchboard and 100 alternating-current series enclosed type arc lamps. F. W. Weber is Supt.

BAY CITY, MICH.—Bids have been received by the Electric Light Committee of the Common Council for installing an electric light plant here. Arbuckle-Ryan Co., Toledo, Ohio, submitted the only bid for the entire work. The bid of the Arbuckle-Ryan Co. does not cover foundations, rearrangement of circuits, removing old lamps and hanging the new ones, water intake or discharge pipes, condensing apparatus, the additional cost of which will be between $15,000 and $20,000. The company agrees to furnish a complete plant for $42,300, to which should be added, if they are called on to supply Scotch boilers, according to the specification, $4,072, making their bid $46,372 under the specifications. If only 250 HP. in Scotch boilers be required then their total bid will be $43,800 for the work. They also propose a reduction of $304 from their bid of $44,450 if they are permitted to furnish a vertical engine. Bidders for various materials and work were: The Westinghouse Electric & Mfg. Co., Westinghouse Bldg., Pittsburg, Pa.; Allis-Chalmers Co., Milwaukee, Wis; General Electric Co., Schenectady, N. Y.; Western Electric Co.; Adams Bagnall Co.; Fort Wayne Electric Co., Fort Wayne, Ind.; Fairbanks, Morse & Co., Franklin and Monroe Sts., Chicago, Ill.; E. T. Bissel & Co., Toledo, Ohio; Lang Electric Co.; Springfield Boiler Works; Wicks Bros., Saginaw, Mich.; Thorne Electric Co., Bay City.

BERRIEN SPRINGS, MICH.—We are officially advised that on Nov. 7 contract was awarded to A. J. HAMMOND, South Bend, Ind., for constructing a hydro-electric plant here, at $3,220. The system will have 25 arc lamps of 2,000 c.p. A. B. Ayres is Pres. Bd. Trustees.

RITCHEY, ILL.—The Kankakee Electrical Power Co., it is stated will build a 25-ft. dam at Ritchey, which will develop 6,500 HP. B. G. Smith is Mgr., Kankakee.

*MADISON, WIS.—Bids are asked until noon, Nov. 22, by the Wisconsin Capitol Commission for furnishing equipment for the heating and power plant for the Capitol now building at Madison. Storm Bull is Consult. Engr., Madison; Lew F. Porter is Secy. Comn.

DAVENPORT, IOWA.—The J. C. SETTLE CONSTRUCTION CO. of St. Louis, Mo., has been awarded the contract for the construction of the power house of the Independent Light Co.

KEOSAUQUA, IOWA.—Iowa-Missouri Traction & Power Co. is preparing plans to construct two dams across Des Moines River at Keosauqua, Iowa, and provide water-power equipment and electrical machinery for developing 9,000 HP., to be transmitted for electric lighting and operating railway. A. W. Carpenter, Box 315, Memphis, Mo., is interested.

FORT LEAVENWORTH, KAN.—The contract for the addition to the electric light and power plant at the Federal prison has been let to E. E. NEWBERRY & CO., at $8,126. The additional equipment will double the present capacity of the prison plant, which is now about 300 HP.

WOOD RIVER, NEB.—Bids will be received about Jan. 15 for construction of water-works and an electric light plant to cost $17,000. An engineer has not yet been selected. D. D. O. Kane is Village Clerk.

SIOUX FALLS, S. DAK.—The Sioux Falls Light & Power Co. is planning to rebuild its entire plant and develop water power to the extent of 2,500 HP., it is reported. H. M. Byllesby & Co., Inc., 123 Monroe St., Chicago, Ill., are Engrs.

BIG HORN, WYO.—See Delta, Pa.

*CHINOOK, MONT.—Bids are asked until 2 p. m., Dec. 21, by the Town Council, for constructing an electric light system. John C. Duff is City Clerk.

CAMPBELL, MO.—A. C. Moss, proprietor of the Campbell electric light plant, intends to form a stock company, it is stated, to be composed of business men of Campbell, St. Louis and Cairo, to enlarge the capacity of the present plant and to install an ice plant later on. It is the intention to install a 150-KW. alternator, 150-HP. Corliss engine, 150-HP. tubular boiler and a 10-ton ice plant. The electrical machinery will be put in this fall.

MAGNOLIA, ARK.—R. L. Moore, Pres. Standard Ice & Light Co., Magnolia, Ark., will install 125 to 150-HP. high-speed automatic engine for electric-light plant; immediate delivery f. o. b. Magnolia.

SAN ANTONIO, TEX.—San Antonio Gas & Electric Co. will rebuild its arc-lighting system soon and will install four arc-light generators to supply current for street-lighting lamps. Part of the old equipment will be rebuilt and practically all machinery now in use at this station can be used in new plant which company was reported in August as having under consideration. It is expected that the improvements planned will be completed in December. George H. Cushman is Supt.

OKLAHOMA CITY, OKLA.—The Citizens' Light & Power Co., recently organized with a capital stock of $250,000, is planning to begin work at once on the construction of a plant to furnish electricity for light and power in the Putnam addition, and later will probably supply the entire city. F. H. Peck, of St. Louis, Mo., will have charge of the construction of the plant.

CHICKASHA, IND. T.—The Chickasha Water Power Co., which will build electric light and power plant, will soon begin construction of dam on Washita River, near Chickasha. The system will consist of 75 arc lamps of 2,000 (nominal) c. p. and 3,000 incandescent lamps of 16 c. p. The company will install two 500-HP. water wheels, two 500-HP. generators and accompanying lamps, etc. Electricity will be transmitted to Chickasha. C. E. Ross is Des. Engr.; Lawrence Martin, Treas.

LAS ANIMAS, COLO.—Bids are asked until 11 a. m., Nov. 23, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing power plant, building and machinery at the U. S. naval hospital, New Fort Lyon, Colo. William M. Smith is Acting Ch. of Bureau.

TACOMA, WASH.—Beall Foster, of the Foster Lumber Co. of Tacoma, intends to install electrical equipment to generate electricity to furnish light for about 1,000 houses, and will receive estimates for furnishing equipment for the same.

LOS ANGELES, CAL.—The Board of Public Works has awarded contracts for the machinery for the city's cement plant at Tehachapi as follows: For two steam turbine sets to the D'OLIER ENGINEERING CO., 121 South Eleventh St., Philadelphia, Pa., at $50,830; the PACIFIC COAST MFG. CO., 126 South Los Angeles St., Los Angeles, for 26 motors at $13,044 and boilers at $19,550. E. Duryee will have charge of the plant.

MONTREAL, QUE.—Bids are asked by the Fire and Light Committee of this city until Dec. 16, for the supply of electrical energy for lighting, heating and industrial purposes, as well as for the supply of gas for the same purposes. L. O. David is City Clerk.

FORT FRANCES, ONT.—Press reports state that the question of damming the Rainy River at a point below Fort Frances for the purpose of generating power has been discussed at a joint meeting of the International Waterways Commission. The Dominion Government has commenced important works on the river for the purpose of rendering this navigable to larger vessels, and it is reported that about $500,000 will be spent in locks and dams. Inquiry will be made at Fort Frances and other places before a decision is reached.

Work on the municipal power dam will be resumed at once, work being in charge of George J. Huss, Ch. Engr. of the Minnesota & International Ry. Co., which is now being constructed to International Falls on the American side of the Rainy River, from this town. J. A. Osborne, Fort Frances, is interested.

WINNIPEG, MAN.—The contract for construction of the civic power plant at Point du Bois, has been vetoed by the Mayor, who states work will be held over for a year, when fresh bids will be called. He also states that Cecil B. Smith, civic power expert, will no longer be retained.

NANAIMO, B. C.—The Nanaimo Electric Light, Power & Heat Co. will soon commence work on the construction of a large dam at Westwoods Swamp, about three miles from the city, to increase the water capacity for the electric plant. W. W. Lewis, Nanaimo, is Mgr.

BRIDGES.

BUTLER, PA.—The Pittsburg & Butler Street Ry. Co. has petitioned the Butler City Council for permission to have a steel viaduct constructed from East Wayne St. to Center Ave. with a spur along Center Ave., reaching the level of the street. The viaduct as planned will be 50 ft. wide. Estimated cost, $75,000. George Heard is Pres. Pittsburg & Butler Street Ry. Co., Vandergrift Bldg., Pittsburg, Pa. Hudson F. Layton is Ch. Engr.

GREENSBORO, PA.—The residents of Greene and Fayette Counties have petitioned the courts for assistance in building a bridge across the Monongahela River, between this city and New Geneva. Estimated cost, $150,000. D. M. Hertzog, Uniontown, Pa., is the representative of the Fayette County residents.

UNIONTOWN, PA.—Bids are asked until noon, Nov. 15, by the County Commissioners for construction of the superstructure for a bridge over Meadow Run in Stewart Township. Ash F. Williams is Clk. County Comrs.

PITTSBURG, PA.—Plans are being prepared for the construction of two bridges, one from Meadow St., in the 21st Ward, to Bond St., in the 19th Ward, the other across Beechwood Boulevard at Murray Ave. Estimated cost, $140,000.

PITTSBURG, PA.—A bridge may be built in Bloomfield. The committee appointed by the Bloomfield Board of Trade to look after the matter is composed of J. Z. Yoest, 4786 Liberty Ave., Henry E. Juergens, the Rev. U. Hengartner, T. J. Sherry, Robert Gestrich, Henry Meyer, Louis P. Yeager and John J. Dauer. Estimated cost, $200,000.

NEWARK, OHIO.—Bids are asked until 1.30 p. m., Nov. 25, by the County Commissioners of Licking County, for constructing the superstructure of the Fallsburg Bridge, 105 ft. span, pin connected truss. H. L. Maddox is County Engr.

CINCINNATI, OHIO.—Bids are asked until noon, Nov. 29, by the Board County Commissioners for repairing the suspension bridge over the Whitewater River, Whitewater Township. Fred Dreichs is Clk. Bd.

SIDNEY, OHIO.—Bids are asked by the Commissioners of Shelby County until noon, Nov. 16, for the construction of a low truss bridge across the Cincinnati, Hamilton & Dayton Ry. on Michigan St. J. C. Rosser is County Audr.

LA FAYETTE, IND.—Plans and specifications for the steel bridge that is to be erected by the County Commissioners at Granville across the Wabash River were submitted to the Commissioners on Nov. 5 by Everett B. Vawter, who prepared them. According to the plans, the structure will be 645 ft. long. There will be three spans, each 215 ft. long. The roadway is to be 16 ft. wide. There are to be two concrete abutments. The county will furnish the right-of-way on both sides of the river and the contractor will make the fill for the bridge. The date set for the completion of the work is Nov. 1, 1908. As soon as the Commissioners complete their examination of the specifications and make whatever alterations they may decide upon they will advertise for bids.

SOUTH BEND, IND.—Bids will be asked for soon by the Commissioners of St. Joseph County for the construction of a concrete arch bridge in Lasalle St. Estimated cost, $15,000.

NEWCASTLE, IND.—Bids are asked by the Board of Commissioners of Henry County until 10 a. m., Nov. 18, for taking down and moving the steel bridge over Blue River, on the Cadiz pike. John M. Bundy is County Audr.

VINCENNES, IND.—THE VINCENNES BRIDGE CO. was awarded the contract Nov. 5 by the County Commissioners for the construction of a number of bridges in various parts of the county, at $12,075.

CHICAGO, ILL.—Plans for the construction of a double bascule bridge across the Chicago River at Lake St., to cost $1,000,000, are being considered by Thomas G. Pihlfeldt, City Bridge Engr. Plans are to be prepared for bridges at Orleans, Erie, Washington, Blackhawk and Polk Sts.

BIGFORK, MINN.—Bids are asked by E. L. Shultis, Village Clk., until 9 a. m., Nov. 22, for the construction of one or two highway bridges. P. Peterson is Village Pres.

GRAHAM, TEX.—Bids are asked until Nov. 20 by the Commissioners' Court of Young County for the construction of two bridges across the Brazos River in Young County. Estimated cost, about $40,000. George H. McLaren is County Judge.

WENATCHEE, WASH.—THE NORTHWESTERN BRIDGE CO. has been awarded the contract for the construction of a 180-ft. span bridge across the Washougal River on State Road No. 8, at $6,975. The bridge will rest upon cylinder piers filled with concrete and set on solid rock.

PORTLAND, ORE.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of a reinforced-concrete bridge across Sullivan's Gulch on East 28th St. Bids are asked until Nov. 29.

Plans and specifications are on file at the office of Engineering News, New York, for the construction of a steel bridge on Union Ave. Bids are asked Nov. 15. Douglas W. Taylor is City Engr.

WILLOW, CAL.—The Northern Electric Ry. Co. will have a toll bridge constructed across the Sacramento River. The structure is to be a combination railroad and toll bridge, 570 ft. in length with trestle approaches, and the width of the draw is to be 130 ft. in the clear, the length of the entire draw span being 316 ft. Henry C. Butler is Pres.

LOS ANGELES, CAL.—THE MERCEREAU BRIDGE & CONSTRUCTION CO. has been awarded the contract by the Board of Supervisors for the construction of culverts on the Sunset Boulevard at $4,257. Homer Hamlin is City Engr.

SOUTH BATTLEFORD, SASK.—NEWMAN & CO., Regina, Sask., have been awarded the contract for the erection of the sub-structure of the Government bridge across the Saskatchewan River, at about $100,000.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—The Old Colony Trust Co., Ames Bldg., is having plans made by Shepley, Rutan & Coolidge, Archs., 122 Ames Bldg., for a brick and stone bank building, to be erected at 23 Court St., at about $500,000.

S. S. Beman, 203 Michigan Ave., Chicago, Ill., has about completed plans for a publishing building, to be built at Boston, in the Back Bay district, for the Christian Science Association. The building will have three stories, 86 x 126 ft., and will be constructed of brick, steel, cut stone and granite. Cost, $200,000. Bids will be received by architect.

Contract for the erection of a building, at 131-134 Tremont St., for Simmons College has been let to ARTHUR C. WHITNEY, 18 Post-office Sq. The structure is to be eight stories high, of brick, stone, steel, terra cotta and fireproof construction. Cost, $275,000. Winslow & Bigelow, 120 Tremont St., are Archs.; Purdy & Henderson, 101 Tremont St., are Engrs.

NEW BEDFORD, MASS.—The following bids were received on Oct. 22 by the City Council Committee on City Property for the construction of a high school two plans (a) large building, (b) smaller building: Henry T. Bulman, 109 Bonney St., New Bedford, (a) $707,000, (b) $574,408; J. W. Bishop Co., 107 Foster St. Worcester, (a) $729,924, (b) $574,408; Woodbury & Leighton, 166 Devonshire St., Boston, (a) $731,840, (b) $597,836; Maguire Penniman Co., Custom House, Providence, R. I., (a) $781,150, (b) $612,000; Z. B. Davis, 3 East Pope St., New Bedford, (a) $853,359, (b) $678,758, and J. B. Sullivan & Son, 560 Cottage St., New Bedford, (b) $617,777.

BUFFALO, N. Y.—We are officially advised that the erection of the proposed Saint Mary's Academy is indefinitely postponed. Several architects have prepared plans, but none have been accepted.

*MADISON BARRACKS (Sacketts Harbor post-office), N. Y.—Bids are asked by the Constructing Quartermaster, until 11 a. m., Nov. 27, for constructing a 300,000-gal. steel tank, Q. M. stable, one set quarters, wagon shed, and remodeling old mess building.

NEW YORK, N. Y.—We are officially advised that Lorenz F. J. Weiher, Arch., 103 East 125th St., has prepared plans for a 6-story brick tenement building, containing stores, to be erected on Arthur Ave., near Belmont. Pl. The building will be 50 x 105.3 and 105.9 ft. and will cost about $120,000. Pasquale Gargiulo, 47 Jay St., is owner. Contracts have not been let.

Plans were filed on Nov. 4 by the city for a 4-story armory, to be built on a plot 202.2 x 301.5 ft., at the corner of 166th St. and Franklin Ave. It will cost $420,000. Charles C. Haight, 452 Fifth Ave., is Arch.

NEW YORK, N. Y.—Bids are asked until 10.30 a. m., Nov. 20, by Francis J. Lantry, Fire Comr., for constructing additions and alterations to quarters of Engine Company 58, located at 81 West 115th St., and to quarters of Engine Company 35, located at No. 223 East 119th St.

Estimates will be received by Allen & Collens, 1170 Broadway, until Nov. 18, for five buildings, at 120th to 122d St., Broadway and Claremont Ave., for the Union Theological Seminary, 700 Park Ave. The buildings are to be constructed of brick and stone, with oak and ash finish, structural iron and steel, gas and electric fixtures and plumbing. Cost, $1,000,000.

Estimates will be presented to Congress in the winter calling for an appropriation to construct a post-office at the Pennsylvania R. R. terminal in New York, from plans being prepared at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C.

NEW YORK, N. Y.—William Burnett Tuthill, Arch., 287 Fourth Ave., advises us that the general contract for constructing a 3-story residence for M. Schinasi has been awarded to C. T. WILLS, Inc., 156 Fifth Ave., New York. This contract does not include plumbing, heating, wiring, etc. The structure will be built of white marble, will be 40 x 72 ft. and irregular, of French Renaissance style and will be situated at the corner of Riverside Drive and 107th St. Estimated cost, $118,000.

We are officially advised that the receivers of MILLIKEN BROS. Inc., 11 Broadway, New York, have been awarded the contract for the structural steel for the Masonic Temple to be built at 24th St. and 6th Ave., New York. This building will have 18 stories, with basement and sub-basement. The contract for steel work involves about 2,500 tons.

NEWARK, N. J.—Plans have been about completed by Harry King, Arch., 22 Clinton St., for the erection of the proposed addition to the Warren St. Public School. The Board of Education of Newark has made an appropriation of $125,000 for an addition to contain twelve classrooms and an assembly room. According to the plans, the addition will be three stories in height, of brick construction, and will cover an irregular area of about 90 x 187 ft. The structure will be fireproof throughout, the floors being of concrete and all partitions of a fire-resisting character. As soon as the plans are submitted contracts will be let by the Board of Education.

PITTSBURG, PA.—Bids are asked until noon, Nov. 25, by the Commissioners of Allegheny County, for construction of the Allegheny County Soldiers' Memorial, at Pittsburg. The building will have three stories, 170 x 180 ft., will cost about $800,000, and will be built of stone. F. P. Booth is County Controller. J. G. Chalfant, Court-House, Pittsburg, is County Engr.; Palmer & Hornbostel, 63 William St., New York, are Archs. Bids were received on Sept. 27 for the same work, the results of which were published in the issue of Oct. 3.

The Americus Republican Club, Penn Ave., has purchased a site in this city and proposes the erection of a club-house to cost about $250,000. No architect has been selected, and the project will not be started before next spring.

LANCASTER, PA.—Bids are asked until 3 p. m., Dec. 30, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction of an extension, etc., including plumbing, gas piping, heating apparatus, electric conduits and wiring, to the U. S. post-office at Lancaster.

PHILADELPHIA, PA.—Cope & Stewardson, Archs., 320 Walnut St., will invite estimates soon on a new building for the College of Physicians, at 22d and Ludlow Sts. The structure will cost about $300,000.

E. F. Durang, Arch., 1200 Chestnut St., has completed plans for the 5-story addition which is to be built to the Catholic High School at the corner of Broad and Vine Sts. The addition will be of marble, 70 x 140 ft. Cost, $150,000.

*DANVILLE, PA.—Bids are asked by the Building Committee at the Office of the Superintendent, State Hospital for the Insane, at Danville, Pa., until noon, Nov. 26, for erection of a female infirmary building; a building for acute insane male patients, and a building for acute insane female patients. T. P. Reitmyer, Masonic Temple, Williamsport, Pa., is Arch.; Dr. L. I. Shoemaker is Chn.

WARREN, PA.—Contract for erecting three hospital buildings and one dwelling house for the State Hospital for the Insane has been let to WILLIAM HANLEY, Bradford, Pa., at $114,000. J. W. Greenland is Purchasing Agt. and Steward.

WASHINGTON, D. C.—Albert Kelsey and Paul P. Cret, 1524 Chestnut St., Philadelphia, will have plans completed soon for a 3-story Peace Memorial building, to be built at Washington, for the Bureau of American Republics. Marble, stone and steel will be used in construction, with open plumbing, tile, marble and mosaic work, steam heat, electric fixtures, plate and leaded glass, etc. $600,000. Bids probably will be taken in about one month.

Bids are asked by the District Commissioners until noon, Nov. 16, for the construction of a 6-room addition to the Langdon School at 20th and Franklin Sts., N. W.; also for the construction of an 8-room school building at the corner of 4th and M Sts., S. E.

RICHMOND, VA.—The Grounds and Buildings Committee has accepted plans by Charles K. Bryant for erection of armory for the Richmond Light Infantry Blues to cost about about $156,000. Plans have been forwarded to the City Council and have been approved. The first floor will be used as vegetable market, second floor for company rooms and military purposes, and third floor as drill hall, with floor space of 17,040 sq. ft. In basement will be rifle range, containing 7,298 sq. ft., swimming pool, shower baths, etc. It will be constructed on site of the Second Market. Major E. W. Bowles.

CHAPEL HILL, N. C.—The University of North Carolina has awarded contract to N. UNDERWOOD, of Durham, N. C., for constructing the new Biological Laboratory and Davie Hall. Plans were prepared by Frank P. Milburn & Co., Washington, D. C.

TUSCALOOSA, ALA.—Bids are asked until Nov. 23 for constructing proposed Engineering Building and geological and biological laboratories for the University of Alabama. The Engineering Building is to be of reinforced concrete or concrete with brick or stucco finish. The new equipment will include two 100-KW. generators, direct connected; 25-KW. generator; 500-HP. water tube boilers, with coal weighing and ash removal plant; complete equipment for physical, cement testing and road materials laboratories; mining and hydraulic equipment and heating plant. The Legislature at the last session appropriated $500,000 for equipment and buildings, which appropriation is now available. Frank Lockwood, Adams St., Montgomery, Ala., is Arch. Edgar B. Kay is Dean, Dept. Engineering.

NEW ORLEANS, LA.—F. M. Andrews, Third St., Cincinnati, Ohio, is finishing plans and will receive bids soon for a 16-story hotel, 158 × 320 ft., for the Audubon Hotel Co., New Orleans, La. Press brick and steel, architectural, ornamental and structural iron and steel work will be used. Estimated cost, $1,500,000.

CHATTANOOGA, TENN.—We are officially advised that bids will be received until about Dec. 15, for constructing a 5-story brick and stone Y. M. C. A. building at Chattanooga, 100 × 120 ft. The building will cost about $100,000, equipment, $20,000. R. H. Hunt, News Bldg., is Arch.; T. L. McGill is Secy.

KNOXVILLE, TENN.—We are officially informed that Frank P. Milburn & Co., Archs., Washington, D. C., have prepared plans and specifications for remodeling the Southern Ry. Co.'s passenger station in this city. Contract has been awarded to J. P. PETTYJOHN & SON, Lynchburg, Va. The work will commence at once.

TOLEDO, OHIO.—The Toledo "Blade" states that the Lake Shore & Michigan Southern Ry. Co. expects to erect a station to cost about $1,000,000 in Toledo. S. Rockwell is Ch. Engr.; R. H. Reid is Superv. of Bldgs., both at Cleveland, Ohio.

COLUMBUS, OHIO.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has announced that plans are being prepared for the post-office building to be erected at Columbus, and bids for the construction will be asked about Jan. 1. Cost, $500,000.

CLEVELAND, OHIO.—A permit has been granted by the Building Inspector to the Board of Education to commence building the Technical High School. The new building is to cost $300,000, and will measure 329 × 197 ft. Peter Witt is City Clerk.

*SOUTH BEND, IND.—Bids are asked until 3 p. m. Jan. 2, by James Knox Taylor, Superv. Arch., Washington, D. C., for constructing an extension and remodeling the U. S. post-office at South Bend.

GARY, IND.—George L. Harvey, 175 Dearborn St., Chicago, Ill., is reported to be preparing plans for a hospital, to be built at Gary, for the Indiana Steel Co. It will be 5-story, 50 × 165 ft., of fireproof steel construction, with brick exterior, composition roof, tile floors and partitions, marble wainscoting, steam heat. Cost, $150,000. The plans will be ready for bids about Dec. 1.

PEORIA, ILL.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to the GENERAL CONSTRUCTION CO., Hathaway Bldg., Milwaukee, Wis., contract for the construction of an extension to the post-office building at Peoria, Ill., at $170,323; time, July 1, 1909.

NORTH CHICAGO, ILL.—Bids are asked until noon, Dec. 2, at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a commandant's house, six officers' houses, and a receiving guard house at the naval training station, Great Lakes, North Chicago, Ill. W. H. Brownson is Ch. of Bureau.

EAST ST. LOUIS, ILL.—The following bids were received on Oct. 28 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of U. S. post-office and court-house at East St. Louis: Hiram Floyd Building Co., St. Louis, Mo., $213,305; C. L. Grey Construction Co., St. Louis, Mo., $239,300; Gedney Lumber & Mfg. Co., East St. Louis, $238,791; A. B. Stannard, St. James Bldg., New York, N. Y., $227,000; I. H. Wiese, South Omaha, Neb., $221,890, and Cramp & Co., Commonwealth Bldg., Philadelphia, Pa., $222,960.

MILWAUKEE, WIS.—Plans have been completed and bids will be asked for by the Board of Public Works for erecting a 3-story brick and stone addition to the Public Museum, to cost between $150,000 and $200,000. Ferry & Clas, 419 Broadway, Milwaukee, are Archs.; Henry L. Ward is Dir. Public Museum.

MADISON, WIS.—Bids will be received in about three weeks for erection of a women's dormitory, with gymnasium, natatorium and bowling alleys, at the University of Wisconsin. Cost, $200,000. Arthur Peabody is State Arch.

DES MOINES, IOWA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to PAUL RIESEN'S SONS, 50 University Bldg., Milwaukee, Wis., contract for the construction of a post-office building at Des Moines, Iowa, at $367,793; time, Nov. 5, 1909.

PITTSBURG, KAN.—J. F. Stanton, State House, Topeka, Kan., has let general contract to LEEPER & SMITH for a 3-story and basement manual training school building for the State Normal School, Pittsburg. Estimated cost, $150,000.

COLUMBIA, MO.—The State University is having plans prepared by Cope & Stewartson, Security Bldg., St. Louis, Mo., for erection of Agricultural Building, two stories high, 70 × 245 ft., of brick and stone construction. Cost, $150,000.

INDEPENDENCE, MO.—Charles A. Smith and Frank J. Rea, Archs., Dwight Bldg., Kansas City, Mo., have let general, mason and carpenter contract to TAYLOR & WINN, Massachusetts Bldg., Kansas City, at $148,208, for the 3-story county home for Jackson County, 54 × 275 ft. Samuel Boyers is County Clerk.

KANSAS CITY, MO.—H. R. Wilson, 218 La Salle St., Chicago, Ill., is at work on plans for a mercantile building to be erected at Eleventh and Walnut Sts., Kansas City, Mo., for Eli Meyer and M. C. Simon, Rochester, N. Y. Building will have twelve stories, 60 × 110 ft., press brick, stone and steel construction. Bids will be received by the architect. Cost, $700,000.

A permit has been granted by the Superintendent of Buildings for construction of a 9-story reinforced concrete building on Campbell St., for Montgomery, Ward & Co., 15th and Liberty Sts. Andrew Young is Mgr.

PORTLAND, ORE.—The Dammeler Investment Co. will erect a building on the west side of Fourth St., between Everett and Flanders Sts., to cost about $125,000. It will front 200 ft. on Fourth St., and 100 ft. on Everett and Flanders Sts. The building will be three stories high and will contain 18 stores.

*PRESCOTT, ARIZ.—Bids are asked by Capt. Charles C. Walcutt, Jr., A. Q. M., Prescott, until 11 a. m., Dec. 12, for construction, plumbing, hot water heating and electric wiring hospital at Whipple Barracks, Ariz.

LONDON, ONT.—The Southwestern Traction Co., it isreported, will rebuild its car barns recently destroyed by fire, at a loss of $150,000. S. W. Mower, London, is Gen. Mgr.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

BUFFALO, N. Y.—Bids are asked by the Department Public Works until 11 a. m., Nov. 19, for furnishing and installing two vertical high-pressure double cylinder 8 × 8 ins., reversing engines. F. G. Ward is Comr. Pub. Wks.

*MADISON BARRACKS, N. Y.—See under Buildings.

NEWARK, N. J.—We are officially advised that the ABBOT-GAMBLE CO., 32 Broadway, New York, has been awarded the contract by the Celluloid Co., 295 Ferry St., for construction of a tunnel, laying water-pipe and sewer lines at its plant. Fred W. Abbot is Pres., Abbot-Gamble Co.

PHILADELPHIA, PA.—The contract for the two 20,000,000-gallon pumping engines for the Gardner's Point pumping station was let Nov. 5 by George R. Stearns, Dir. Pub. Wks., to the HOLLY MFG. CO., Roberts Ave. and Clinton St., Buffalo, N. Y., at $268,769.

PHILADELPHIA, PA.—A high-pressure fire main will be built in Kensington, $500,000 of the $10,000,000 loan approved Nov. 5 having been appropriated for the purpose.

*CAMBRIDGE SPRINGS, PA.—Bids are asked until 7.30 p. m., Dec. 12, by A. H. Drake, Boro. Clk., for the construction of a mechanical filter plant. J. F. Himebaugh is Burgess.

BALTIMORE, MD.—The Mount Washington Artesian Water Co., Edward L. Gernand, Pres., has secured a franchise to lay water mains from artesian wells near Rogers Station to Mount Washington, about nine miles.

UNION, W. VA.—THE WEST VIRGINIA HEATING & PLUMBING CO., Charleston, W. Va., has been awarded the contract for the installation of a water-works plant at about $5,500.

SMITHFIELD, N. C.—We are officially advised that the Holmboe Co., Lincoln Savings Bank Bldg., Louisville, Ky., has been selected to prepare plans and specifications for water-works for this city.

WILMINGTON, N. C.—We are officially advised that this city has voted bonds amounting to $900,000, of which $400,000 is for street improvements and $500,000 for water-works and sewerage system. A commission of five has been appointed for the street work, of which Louis Beldon is Chn. Also a commission of three for the water-works, for which no chairman has been appointed yet. The city purchased the present water-works plant for $158,000. The Water-Works Co. had collected $3,000 in advance on rents for the coming year and were allowed by the city to retain this sum thus bringing up the total cost to $158,000. No further steps have been taken as yet on this work. Noted last week. C. R. Humphreys, City Engr.

COLUMBIA, S. C.—The Water Commissioner has recommended that a double system of water mains of 8 and 10-in. pipe be laid on Main St. from the State House to Elmwood Ave. or Richland St., with proper provision for future extension on West Gervals and South Main Sts. Estimated cost, about $10,000. E. N. Chisholm is City Engr.

TUNNEL HILL, GA.—The contract for the construction of a water-works system at Catoosa Springs has been awarded to the NOLL CONSTRUCTION CO., Chattanooga, Tenn., at $7,100.

BARNESVILLE, OHIO.—Bids are asked until Nov. 18 by the Board County Commissioners at the office of A. W. Beaty, County Audr., for installing a complete pneumatic water system in the County Children's Home, near Barnesville.

LAKEWOOD, OHIO.—Bids are asked until 11 a. m., Nov. 18, for laying a water main in Nicholson Ave. B. M. Cook is Village Clk.

MINERVA, OHIO.—Bids are asked until noon, Dec. 4, by the Board of Public Affairs, for a 150-HP. boiler, 150 lbs. steam pressure. L. E. Weber is Secy. Bd.

AURORA, IND.—Plans and specifications for an auxiliary pump for the city pumping station are being prepared by Chicago engineers.

FORT WAYNE, IND.—JOSEPH GUSTEN has been awarded the contract for the construction of the David C. Smith ditch in Maumee and Milan Townships, at $10,592. F. Randall is City Engr.

EAST MOLINE, ILL.—THE CHICAGO BRIDGE & IRON WORKS, 105th and Throop Sts., has been awarded the contract for the erection of a standpipe at about $5,300.

EMMETSBURG, IOWA.—Bids are asked until 1 p. m., Dec. 11, by Sim R. Steadman, County Audr., for constructing certain drainage improvement Nos. 6, 12, 15, 16, 18, 19, 23, 25 and 26.

MORRIS, MINN.—Bids are asked by F. E. Ware, County Audr., until Nov. 19, for the construction of Ditch No. 3, necessitating about 10,000 cu. yds. of excavation. Estimated cost, $10,000.

WOOD RIVER, NEB.—See under Light and Power Plants.

GRAND FORKS, N. DAK.—Bids are asked until 4 p. m., Nov. 14, by W. V. O'Conner, City Audr., for constructing a water main in Palkenham Ave. J. J. Smith is City Engr.

CHEYENNE, WYO.—We are officially advised that $160,000 of bonds were voted Nov. 5 by the city for the improvement of the water-works. C. C. Carlisle is City Engr.

FORT WORTH, TEX.—The City Council has purchased 1,000 acres of land, 20 miles from the city on the Clear Fork River for the maintenance of a reservoir, at $50,000.

ABERDEEN, WASH.—The Thompson ranch, located on the South Side has been purchased by the city for $8,000 as a site for a separate water plant for that section of the city. H. W. Troutman is City Engr.

LOS ANGELES, CAL.—The Te Junga Company will build reservoirs and dams in the Te Junga Canyon. Estimated cost, $500,000. Homer A. Hansen is Pres. Te Junga Co.

PHOENIX, ARIZ.—Bids are asked until 2 p. m., Dec. 2, by the Commissioner of Indian Affairs, Washington, D. C., for constructing and completing an addition to the water system at the Phoenix School, Phoenix, Ariz. C. F. Larrabee is Acting Comr.

BOISE, IDAHO.—The contract for installing a drainage system at Boise Barracks, Idaho, has been awarded to SAM T. DAVIS, Boise, at $3,680.

NOTRE DAME DE QUEBEC, QUE.—A water-works system will be installed here at an estimated cost of about $94,000.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

BRIDGEPORT, CONN.—The following contracts have been awarded for the construction of new sewers: Newfield Ave. sewer, E. T. DOOLITTLE, at 90 cts. a ft. and $3.50 a ft. for manholes; Alpine St. sewer, PIERCE MFG. CO., $1.90 a ft. and $3.50 a ft. for manholes; Charles St. sewer, B. D. PIERCE, JR., CO., at 90 cts. a ft. and $3.85 a cu. yd. for rock and $2.50 a ft. for manholes. William N. Starr is City Surv.

BUFFALO, N. Y.—Bids are asked until 11 a. m., Nov. 16, by the Department of Public Works for the construction of a 10-in. tile sewer in Barton St. F. G. Ward is Commissioner, Dept. Public Works.

STITTVILLE, N. Y.—Bids are asked until 7 p. m., Dec. 7, by the Board of Sewer Commissioners of Marcy, Oneida County, N. Y., for the construction of 1,500 lin. ft. of vitrified pipe sewer.

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Boro. Pres., until 11 a. m., Nov. 20, for constructing sewers and sewer basins in various streets.

WEST NEWPORT, PA.—Bids are asked until noon, Nov. 22, by P. G. [illegible], Secy. of the Council for the construction of a sewer system.

*READING, PA.—Bids are asked until 2 p. m., Nov. 20, by the City Clk. for the construction and laying of about [illegible] lin. ft. of 10-in. pipe sewer, 32,500 lin. ft. of 5-in. pipe sewer, together with the Ys and manholes in House Sewer District No. 12, and for the construction of various storm water sewers. Elmer H. [illegible], City Engr.

*DELAWARE CITY, DEL.—Bids are asked by Capt. J. L. Knowlton, Corps of Eng. Q. M., U. S. A., until 11 a. m., Nov. 25, for remodeling the sewer system and installing two sewage ejectors and ejector [illegible] at Fort Dupont, Del.

*WASHINGTON, D. C.—Bids are asked until noon, Nov. 25, by the Commissioners, District of Columbia, for constructing sewers in the District of Columbia. Henry B. F. MacFarland, Henry L. West, Joy [illegible] Morrow are Comrs., D. C.

SMITHFIELD, N. C.—The Holmboe Co., Lincoln Savings Bank Bldg., we are officially advised, have been selected as engineers to prepare plans and specifications for the construction of sewers for this city.

FLORENCE, S. C.—A complete sewerage system may be installed here, the Council having accepted the proposition of William W. Lyon, Civil and Sanitary Engr., Sumter, S. C., to furnish plans, make the necessary surveys and estimate the cost, at a certain percentage of the total cost.

FORSYTH, GA.—Bids are asked until Dec. 6 by H. F. Wilder, City Clk. and Treas., for the construction of a sewerage system. Estimated cost, $15,000.

*NORFOLK, VA.—Bids are asked by J. D. Hank, Jr., Secy. Local Bd., until noon, Nov. 28, for the construction of a part of the sewerage system, the work consisting of the following: 1,000 lin. ft. 10-in. terra cotta pipe lateral sewer; 24,000 lin. ft. 8-in. terra cotta pipe lateral sewer; 24,000 lin. ft. 4-in. terra cotta pipe house connections; 50 manholes; 35 flush tanks. W. T. Brook is City Engr.

SHELBYVILLE, KY.—We are officially informed that the citizens have voted to issue bonds for the construction of a sewerage system and a sewage disposal plant. Contracts for the construction of the same have been awarded to FRANK SCHEFOLD, New Albany, Ind. Charles E. Collins, Drexel Bldg., Philadelphia, Pa., is Engr.

YOUNGSTOWN, OHIO.—Bids are asked until Nov. 21 by Board of Public Service, W. H. McMillin, Clk., for furnishing material and constructing sewers in portions of Fairview and Ridge Aves. and Regent St.

ORRVILLE, OHIO.—Bids are asked until Dec. 6, by S. W. Jackson, Village Clk., for the construction of a sewerage system and sewage disposal plant. Estimated cost, $70,000.

KENDALLVILLE, IND.—Bids are asked until noon, Nov. 22, by the City Council for the construction of a sewer in Richmond St. Estimated cost, $7,000.

RICHMOND, IND.—We are officially advised that bids are asked until Nov. 20 by the Board of Public Works for the construction of two sewers. Estimated cost, $10,000 and $12,000. Fred. R. Charles is City Engr.

LA FAYETTE, IND.—Bids will probably soon be asked by the Board of Public Works for the construction of a sanitary sewer system between Kossuth and Elliott Sts., with lateral sewers in Central Ave., Ninth, Tenth and Eleventh Sts.

RICHMOND, IND.—Bids are asked until noon, Nov. 20, by the Board of Public Works for the construction of two sections of the trunk line sewer in the northwestern part of the city, and also for the construction of a general purpose sewer. C. W. Merrill is Chn. Bd.

INDIANAPOLIS, IND.—Plans have been ordered for the construction of a sewer in Morris St. from Harding to West Sts., and for a sewer 2½ miles long, from 8 ins. to 3 ft. in diameter, extending from 26th St. southwest to 13th St. B. H. Miller is City Engr.

GRAND RAPIDS, MICH.—KLOOTE & VANDER VEEN have been awarded the contract for the construction of the East Bridge St. sewer at about $5,500.

TWO RIVERS, WIS.—Bids are asked until 7. 30 p. m., Nov. 15, by the Board of Public Works for the construction of a portion of the sewer system.

DES MOINES, IOWA.—The following bids were received by the Board of Public Works Oct. 29 for the construction of the Center Boulevard sewer system: Cook Construction Co., $5,900; J. F. & F. A. Hausman, $6,100. George D. Dobson is City Engr.

Bids are asked until Nov. 20 by the Board of Public Works for the construction of 12,325 ft. of 10-in. pipe sewer in the northwestern part of the city. Estimated cost, about $25,000.

ST. PAUL, MINN.—Bids are asked until 2 p. m., Nov. 14, by the Board of Public Works for the construction of a sewer in Baker St. R. L. Gorman is Clk. Bd.

ST. PAUL, MINN.—Bids are asked by R. L. Gorman, Clk. Bd. Pub. Wks., until Nov. 18, for the construction of the St. Anthony Park sewer system, 12 miles in length, the work to consist of 9,000 ft. reinforced-concrete sewer and about 54,000 ft. pipe line.

VIRGINIA, MINN.—CHARLES C. BUTLER has been awarded contract for the construction of a sewer in District 3-G, at $3,079.

SPOKANE, WASH.—The contract for the construction of the First Ward trunk sewer was let Nov. 6 by the Board of Public Works to JULIA V. COSTELLO, at $22,650. Charles McIntyre is City Engr.

SEATTLE, WASH.—H. F. Jahn & Co., 571 Colman bldg., submitted the following bid for the improvement of North 39th St. and other streets by constructing sewers therein: Brick, $[illegible],943; pipe, $52,663. Contract has not been let, but is still under advisement.

ELLENSBURG, WASH.—No bids were received for the construction of the trunk sewer on Sprague St. Bids will not be readvertised, the city having decided to commence the work at once.

ASHLAND, ORE.—Following are the bids opened Oct. 26 by the City Council for the construction of sewers: E. E. Phipps, Ashland, $5,687; Grant's Pass Hardware Co., Grant's Pass, Ore., $6,597; D. Perozzi & R. J. Stewart, Ashland, $6,252; WILLIAM H. PENTER, Ashland, $4,953 (awarded contract).

OAKLAND, CAL.—Bids are asked between the hours of 10 and 11 a. m., Nov. 20, by the Board of Public Works for the construction of an extension of the east side sewer from East Eleventh St. to East Eighth St. Walter B. Fawcett is Secy. Bd.

TORONTO, ONT.—The ORPEN CONTRACTING CO. has been awarded the contract by the Board of Control for the construction of a sewer in Greenwood Ave., at $22,950. E. Coatsworth is Chn. Bd.

WINDSOR, ONT.—The city is planning the construction of a number of new sewers in addition to other improvements.

EDMONTON, ALTA.—Extensions to the sewer and water-works systems will be made here, the ratepayers having voted to expend $96,000 for these improvements.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

STERLING, CONN.—The contract for constructing 6,635 ft. of gravel road here has been let by J. H. McDonald, Highway Comr., Hartford, Conn., to AHERN BROS., North Stonington, Conn., at $7,978.

BUFFALO, N. Y.—Bids are asked until 11 a. m., Nov. 21, by the Department Public Works for paving and repaving various streets. F. G. Ward is Comr. Pub. Wks.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Nov. 20, by Bird S. Coler, Boro. Pres., for paving various streets with asphalt and granite pavement on a concrete foundation, for furnishing and delivering 250 cu. yds. of paving gravel and 150,000 lbs. of paving pitch.

*WOODBURY, N. J.—Bids are asked until 8 p. m., Nov. 25, by John E. Estell for paving South Broad St., an estimated area of 2,950 sq. yds. with Warren's Bitulithic pavement. William M. Carter is City Engr.

HARRISBURG, PA.—Bids are asked until Nov. 19, by Joseph W. Hunter, State Highway Comr., for the construction of state roads in Westmoreland County, as follows: Loyalhaima Township, 3,900 ft. of road; North Bellevernon Borough, 1,112 ft. of brick road; Rostrover Township, 1,585 ft. of road; 1,523 ft. of brick road and 5,725 ft. of macadam road in Tionesta, Forest County, and 13,088 ft. of road in Logan Township, Blair County.

Bids are asked until Nov. 21, by Joseph W. Hunter, State Highway Comr., for constructing following state roads: Cresson Borough, Cambria County, 2,582 ft. of brick and 1,681 ft. of macadam road; Cresson Township, Cambria County, 10,952 ft. of macadam and 250 ft. of brick road; East Hempeld, Lancaster County, 5,827 ft. of road, and 14,315 ft. of road; Richland Township, Clarion County, 16,500 ft. of road.

Bids are asked until Nov. 22, by Joseph W. Hunter, State Highway Comr., for constructing 6,427 ft. of 16 ft. wide state road in Aston Township, Delaware County.

Bids are asked until Nov. 20, by Joseph W. Hunter, State Highway Comr., for constructing the following state roads: Waterford Borough, Erie County, 8,160 ft. of road; Waterford Township, Erie County, 3,670 ft. of road; Clearfield Borough, Clearfield County, 1,882 ft. of brick road; Bensinger Township, Elk County, 5,300 ft. of road.

PHILADELPHIA, PA.—The following contracts were awarded Nov. 6 by George R. Stearns, Dir. Pub. Wks.: For repaving about 20 miles of asphalt streets, BARBER ASPHALT CO., Land Title Bldg., at from $1.69 to $2.01 per sq. yd.; for repaving about five miles of asphalt streets, FILBERT PAVING CO., Pennsylvania Bldg., at from $1.63 to $1.[illegible] per sq. yd.; for repaving 138 streets, about ten miles, with vitrified brick, CUNNINGHAM & MURRAY, 1345 Arch St., at an average price of $2.14 per sq. yd.; for repaving 24 streets with granite blocks, D. J. McNICHOL & CO., Fifth and Wyoming Sts., at $2.73 per sq. yd.; for repaving two streets with granite blocks, MACK PAVING CO., Land Title Bldg., at $3.29 and $3.62 per sq. yd.; for repaving six streets with granite blocks, W. A. RYAN, at from $2.88 to $3.03; for repaving four streets with granite blocks, CUNNINGHAM & MURRAY, at from $2.95 to $3.20 per sq. yd.

PHILADELPHIA, PA.—Bids are asked until noon, Nov. 18, by George R. Stearns, Dir. Pub. Wks., for regrading the ungraded portion of 55th St. between Chestnut St. and the West Chester R. R.

SOMERSET, PA.—J. E. FRANCIS, Philadelphia, Pa., has been awarded the contracts for the construction of the following macadamized roads near here: 5,871 ft. from the Point Borough line to the Seanor road, at $10,980; 6,065 ft. from the Windber Borough line to the Shade Furnace road at $10,997.

EAST WAYNESBURG, PA.—The contract for paving Beau St. from Morgan Ave. east to the Borough line, has been awarded to the HALLAM CONSTRUCTION CO., Washington, Pa., at $1.75 per sq. yd. for paving, and 48 cts. per cu. yd. for grading.

WILMINGTON, DEL.—The following bids were opened Nov. 6 by the Levy Court for the construction of a macadam road from Eden Park to the limits of the city of New Castle, a distance of 2.64 miles: B. F. Wickersham, Kennet Square, Pa., $24,950; F. W. Borneman, Lansdowne, Md., $23,413; Theobold Harsch, $24,345; Cornelius Horrigan, $24,998. Francis A. Price is State Highway Comr.

WASHINGTON, D. C.—Bids are asked at the office of the Commissioners, District of Columbia, until Nov. 16, for furnishing the District government during the fiscal year ending June 30, 1908, granite curbing.

FORT MYER, VA.—Bids are asked at the office of the Quartermaster, Fort Myer, Va., until Nov. 25, for construction of a roadway. B. B. Hyer is Constructing Q. M.

ATLANTA, GA.—Bids are asked until Nov. 18, by the Council for repaving Broad St. with creosote blocks, about 13,000 sq. yds. R. M. Clayton is City Engr.

FAYETTEVILLE, TENN.—Bids will soon be asked for the construction of concrete pavements. J. E. Poindexter is City Clk.

LAKEWOOD, OHIO.—Bids are asked until 11 a. m., Nov. 18, by B. M. Cook, Village Clk., for paving various streets.

VENICE, OHIO.—Bids are asked until 1.30 p. m., Nov. 18, by the Board County Commissioners for improving the Venice road in Margaretta Township. Charles Kubach is County Audr.

CINCINNATI, OHIO.—The contract for repairing asphalt streets was awarded by the Board Public Works on Oct. 31st to the KIRCHNER CONSTRUCTION CO., 1243 Budd St., at $7,900. Charles N. Danenhower is Ch. Engr. Bd.

KOKOMO, IND.—The following contracts for the construction of roads in Clay and Howard Townships were awarded Nov. 7 by the Commissioners of Howard County: Harlman road, Clay Township, G. W. EMERY, $8,641; estimated cost, $9,926. Greeting road, Clay Township, JAMES MERRILL, $6,600; estimated cost, $7,034. Rayl road, Clay Township, G. W. EMERY, $5,295; estimated cost, $7,078. Jones road, Clay Township, H. H. STEWART, $7,066; estimated cost, $8,659. Trick road, Howard Township, V. O. VAN BRIGGLE, $5,597; estimated cost, $5,960. Troyer road, Howard Township, M. E. GREESON, $4,925; estimated cost, $3,187. Templin road, Howard Township, M. E. GREESON, $7,635; estimated cost, $8,057. Shockley road, Howard Township, M. E. GREESON, $6,926; estimated cost, $7,146. Carter road, Howard Township, V. O. VAN BRIGGLE, $3,766; estimated cost, $4,245. Yager road, Howard Township, V. O. VAN BRIGGLE, $3,380; estimated cost, $3,710.

ANDERSON, IND.—Bids will soon be asked by the Board of Commissioners for the construction of a gravel road in Monroe Township, known as the Selwin road.

LEBANON, IND.—Bids are asked until 10 a. m., Dec. 2, by the Commissioners of Boone County for the construction of 10,607 ft. of gravel road in Marion Township, 12,286 ft. in Boone Township and 10,813 ft. between Marion and Clinton Townships.

Bids are also asked until 1 p. m., Dec. 2, for the construction of 10,598 ft. of gravel road in Marion Township, 10,580 ft. in Marion and Clinton Townships and 12,066 ft. in Eagle Township. B. F. Simmons is County Audr.

LOGANSPORT, IND.—Bids are asked until 10 a. m., Dec. 4, by the Commissioners of Cass County for the construction of three gravel roads in Clinton Township, roads Nos. 1, 2 and 3 to be bid on separately; and for the construction and improvement of a gravel road in Washington Township. George W. Cann is County Audr.

GREENCASTLE, IND.—Bids are asked until 2 p. m., Nov. 30, by the Commissioners of Putnam County, for the improvement of 16,372 ft. of macadamized road in Jackson Township. C. C. Hurst is County Audr.

KNOX, IND.—Bids are asked until Nov. 23 by the Commissioners of Starke County for macadamizing and paving with gravel three macadam roads in Oregon Township. L. M. Ransbottom is County Audr.

PERU, IND.—Bids are asked until Dec. 7, by the Commissioners of Miami County for the construction of 23½ miles of gravel roads in Richland Township. Bids may be made separately or on the whole six roads. Charles Griswold is County Audr.

TERRE HAUTE, IND.—Bids will soon be asked by the city authorities and the County Commissioners for paving the highway connecting this city with West Terre Haute with asphalt. Estimated cost, $30,000. Edgar Schmidt is City Engr.

ROCK ISLAND ILL.—The Board Local Improvements awarded the following contracts Nov. 4, for the improvement of 25th St., from Fifth to Ninth Ave.: For laying a brick pavement, 28 ft. wide between Fifth and Seventh Aves., TRI-CITY CONSTRUCTION CO., at 40 cts. per cu. yd.; curb, 63 cts. per ft.; paving, $1.68 per yd.; for laying asphalt pavement, 27 ft. wide, from Seventh to Ninth Ave., McCARTHY IMPROVEMENT CO., at 40 cts. per cu. yd. for excavating; curb, 63 cts. per ft.; paving, $1.98 per sq. yd.

ST. JOSEPH, MO.—The PHOENIX BRICK & CONSTRUCTION CO. has been awarded the contract by Board Public Works for grading and paving Tenth St. from Pendleton to Grand Ave. with brick at $1.81 per sq. yd. George F. Barnes is Clk Bd.

ST. LOUIS, MO.—All bids submitted Oct. 29 for paving various streets with creosoted wooden blocks were rejected by the Board Public Improvements as excessive. The bids were: Parker-Washington Construction Co., $3.49 per sq. yd. and 50 cts. per yd. for granite blocks, now in the streets; C. V. Mercereau, $3.30 per sq. yd. and one cent a yd. for the granite. The bids may be readvertised. Charles M. Talbert is Engr. Bd.

CRIPPLE CREEK, COLO.—The contract for constructing a wagon road from this city to Victor was awarded on Oct. 28 to F. W. FREWIN, of Denver, at $3,800.

SEATTLE, WASH.—We are officially advised that the following bids were opened Nov. 2 by the Board Public Works for constructing concrete walks on Meridian Ave. and other streets: HANS PEDERSON, 501 Fairview Ave., $66,169 (awarded contract); Andrew Peterson, 440 Washington Bldg., $67,311; McAdam & Co., Grand Union Hotel, $68,470.

SMITH & HALL, Downs Block, have been awarded the contract by the Board Public Works for constructing concrete walks on Phinney Ave., from North 50th St. to North 65th St., at $5,592. Other bidders were: McAdam & Co., $6,264; Masterson & Hanson, Ballard, Wash., $6,567.

Bids are asked until Nov. 16 by Board Public Works for the following work: Atlantic St., from First Ave. to Railroad Ave., planking; estimated cost, $5,500. Jackson St., paving with vitrified brick; estimated cost, $7,000. Alley in Block "A" Rowe's First Addition, regrading; estimated cost, $3,700. North 37th St., from Meridian Ave. to Woodlawn Ave., constructing concrete walks; estimated cost, $6,300. East Terrace St., from Broadway to Eleventh Ave., constructing concrete walks; estimated cost, $7,000. Ninth Ave. West, grading, etc.; estimated cost, $13,600.

SAN FRANCISCO, CAL.—THE EUREKA CONSTRUCTION CO., 50 West Mission St., has been awarded the contract by the Board Harbor Commissioners for repaving East St., a distance of about half a mile, at $52,449. Thomas P. Woodward is City Engr.

BERKELEY, CAL.—THE BARBER ASPHALT CO., Seventh and Hooper Sts., San Francisco, has been awarded the following contracts: For regrading Shattuck Ave., per sq. ft., 3 cts.; concrete curb, per lin. ft., 68 cts.; asphaltum pavement, per sq. ft., 23.7 cts.; cast-iron culverts, 7 × 30 in., per lin. ft., $4.50; cast-iron culverts, 5 × 18 in., per lin. ft., $4; brick catch basins, each, $82.50; brick manholes, each, $22; for regrading Center St., per sq. ft., 2 cts; reinforced concrete curbs, per lin. ft., 68 cts; asphaltum pavement, per sq. ft., 23.7 cts; for regrading University Ave., per sq. ft., 2 cts.; concrete curbs, per lin. ft., 68 cts.; cast-iron culverts, 5 × 8 in., per lin. ft., $4; asphaltum pavement, per sq. ft., 23.7 cts. J. V. Mendenhall is Town Clk.

OTTAWA, ONT.—The contract for the municipal paving plant has been awarded to the IROQUOIS IRON WORKS, 178 Walden Ave., Buffalo, N. Y., at $14,800.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

HAVERHILL, MASS.—The Haverhill Building Association, 73 Merrimack St., has let general contract to KELLY BROS., corner of Main and Ferry Sts., Haverhill, at $85,492, for the construction of factory No. 2, on Walnut St. A. M. Childs is Secy.

BUFFALO, N. Y.—It is stated that the Thomas Auto Bi Co., 1443 Niagara St., Buffalo, manufacturer of motor cycles, will build and equip a new factory on Niagara St., near Forest Ave.

WASHINGTON, PA. — The National Wrought Iron Annealing Box Co., Anderson, Ind., will start work at once upon the construction of a plant at Washington, Pa., near the tracks of the Baltimore & Ohio R. R., to take care of eastern business. The company's product is lap welded annealing boxes for sheet and tin-plate mills.

PHILADELPHIA, PA.—We are officially advised that Sauer & Hahn, 1112 Chestnut St., have prepared plans for the erection of a cotton-spinning and hosiery plant for the Standard Hosiery Co., at 1320-1326 North Lawrence St. There will be four brick slow-burning buildings, four stories high. Old buildings are being demolished. New engines, boilers, dynamos, fire equipment, etc., will be installed. Bids will be received in about one month. Estimated cost, $125,000.

The A. Schoenhut Co., toy manufacturers, has purchased the dwellings from 2420 to 2434 Sepviva St., on which it will build a large addition to the present plant, at 2215 Adams St. The ground acquired measures 120 × 60 ft., on which a 5-story basement factory, of brick, reinforced concrete, will be erected. Plans for the factory are being prepared by Ballinger & Perrot, Archs., 1200 Chestnut St., Philadelphia. The addition proposed will cost about $50,000.

PITTSBURG, PA.—P. Moran, Ferguson Bldg., and associates are forming a company, to be known as the Andes Smokeless Fuel Co., which will manufacture and sell a new smokeless fuel. The company will start the erection of a large plant on the outskirts of this city next spring, and will be in the market for complete equipment, which will include boilers, engine, grinding and crushing machinery, conveying, moulding and batch mixing equipment.

ROANOKE, VA.—Norfolk & Western Ry. Co., C. S. Churchill, Ch. Engr., Roanoke, will soon award contract for erection of repair shops. John P. Pettyjohn, Lynchburg, Va., and T. W. Kirkbride, of Roanoke and Bluefield, W. Va., have submitted bids.

MONBO, N. C.—The Turner Mills Co., East Monbo, has awarded contract to SACO & PETTEE MACHINE WORKS, of Newton Upper Falls, Mass., through A. H. Washburn, of Charlotte, N. C., for 7,616 spindles, 3,800 spindles for ply yarns, Denn warper, Foster cone winder and other machinery to equip plant. C. H. Lester is Supt. of Construction, at East Monbo. W. D. Turner, of Statesville, N. C., is Pres.

CHESTER, S. C.—Swift & Co., 125 Monroe St., Chicago, Ill., and Atlanta, Ga., will erect large fertilizer plant, to cost about $200,000. Capacity, 10,000 tons. Work will commence at once.

ANDERSON, S. C.—The People's Oil & Fertilizer Co. will erect cotton gin to accommodate four batteries of 4-70 saw gins, with revolving presses, etc. Cost of building, $12,000; cost of machinery, $15,000. The machinery purchased from CONTINENTAL GIN CO., Birmingham, Ala. This gin will replace plant lately destroyed by fire. J. J. Fretwell is Pres.

THOMSON, GA.—The John E. Smith Cotton Mfg. Co., it is reported, will enlarge its mill and will expend about $100,000. R. C. Bibbenstein, of Charlotte, N. C., Engr.

ALBANY, GA.—A cotton yarn mill is to be established at Albany and a company with $250,000 capital stock will be organized for this purpose. It is intended to have a plant of 10,000 spindles to be operated by electricity. J. W. Mock, A. V. Vason, J. W. Johnson, John K. Pray, F. F. Putney, and the Albany Business League are interested, and $175,000 has been subscribed.

DENNY, MISS.—The Gulf Grape Orchard Co. will establish a cannery to cost $50,000, and a mine factory to cost $25,000. J. S. Pihlstrom is interested.

BRISTOL, TENN.—About $20,000 will be expended in establishing a knitting mill here, which will employ about 75 operatives. F. B. Jones, care of the Bristol Board of Trade, is in charge.

BLUFF CITY, TENN.—Holston Mfg. Co. has been incorporated to engage in the production of crushed stone; capacity, 20 cars daily. A 3-story concrete and brick building will be erected at cost of $35,000; cost of machinery, $30,000. C. M. Peters is Arch.; E. A. Luck is Engr.; W. R. Miller, Pres. and Mgr.; John A. Miller, Secy.-Treas. The company will operate plant by electric power and supply the town with lights.

CLEVELAND, OHIO.—The Walworth Run Foundry Co. has had plans prepared for a 4-story factory to cost $35,000. Albert Gerdun is Mgr.

COLUMBUS, OHIO.—The Blumer-Sartain Co. will erect a 4-story brick and steel meat packing plant, to cost $25,000. Gabriel Blumer, River St., is Pres.

GALION, OHIO.—A company has been organized by D. C. Boyd and others, and it will erect a plant to manufacture road machines, rock crushers and road rollers. It is estimated that the plant will cost $200,000.

DAYTON, OHIO.—The engineering department of the People's Railway Co. is preparing plans for a repair shop, barn and office building, to be erected at Edgemont, and to cost $225,000. George C. Towle, Dayton, is Gen. Mgr.; Thomas Synnett, Dayton, is Ch. Engr.

CINCINNATI, OHIO.—It is reported that the Cincinnati Soap Co., 1709 Baymiller St., is having plans prepared by the Reliance Engineering Co., Fourth National Bank Bldg., for a plant to cost $150,000.

The Joseph Joseph & Bro. Co., 1242 Harrison Ave., intend improving its plant at a cost of about $40,000, it is stated. New boilers, engines, generators, motors, etc., will be installed. The Reliance Engineering Co., Fourth National bank Bldg., is preparing plans.

WILKINSON, IND.—It is reported that the Wilkinson Switchboard & Telephone Co., recently incorporated, is in the market for material, equipment and labor for the construction and installation of a telephone plant.

GOSHEN, IND.—The Inman Paper Box & Machine Co. has awarded contract to JAMES A. RILEY for the construction of a factory building on South Madison Ave.

COLUMBUS, IND.—The Caldwell Mfg. Co., recently incorporated, will establish and equip a manufacturing plant in this city. George W. Caldwell, Given Moore and W. A. Stevens are Dirs.

EVANSVILLE, IND.—The W. A. Browning Milling Co. has been incorporated to build and equip a mill and elevator in this city. W. A. Browning is Pres., and John M. Spur, Secy.

TIPTON, IND.—The car barns of the Indiana Union Traction Co., at Tipton, 20 miles north of Indianapolis, were recently destroyed by fire. The barns will be rebuilt at once on a larger scale. H. A. Nicholl, Anderson, Ind., is Gen. Mgr.

GARY, IND.—The BEST MFG. CO., Pittsburg, Pa., brass and iron founder and pipe fitter, has secured a contract for all the piping equipment at the new steel plant now being built by the Indiana Steel Co., at Gary. The offices of the Indiana Steel Co. are in The Rookery, Chicago, Ill.

BAY CITY, MICH.—W. D. Young & Co., Salzburg St. and Michigan Central R. R., are having plans prepared for rebuilding their factory, 180 × 260 ft., which was destroyed by fire. Cost, $50,000. Bids will be received by the Wilcox Engineering Co., Eddy Bldg., Saginaw, Mich.

CHICAGO, ILL.—J. R. Stone, Arch., Hartford Bldg., has awarded general contract to W. L. HOFFMAN & CO., 246 West 47th St., Chicago, for a factory building for W. C. Newberry, 79 Kinzie St., to cost $45,000.

BELOIT, WIS.—Fairbanks, Morse & Co., Franklin and Monroe Sts., Chicago, will erect a plant here, it is stated, to cost about $75,000. J. A. Vail is Supt.

DES MOINES, IOWA.—Cohen Bros., 307 East Third St., iron and metal dealers, have secured a site on which they propose erecting a steel roller mill costing about $100,000.

SIOUX CITY, IOWA.—BENJAMIN E. SHORT, of Sioux City, has secured the contract to erect the main building for the Interstate Brewing Co., at $82,000, it is stated. The building is to be five stories high, of steel, brick and fireproof construction. The contract for the bottling house, office building, loading sheds, barns and other small buildings will be let soon. The machinery for the buildings will cost about $100,000.

MINNEAPOLIS, MINN.—The general contract for constructing brick car shops for the Minneapolis, St. Paul & Sault Ste. Marie Ry. Co. has been let by William M. Kenyon, Arch., Guarantee Bldg., to M. SCHUMACHER, 39 Dell Pl., Minneapolis. Cost, $60,000. Thomas Green is Ch. Engr., Minneapolis; H. C. Bayless is Mech. Engr.

CANTON, S. DAK.—Bids are asked until 2 p. m., Dec. 10, by C. F. Larrabee, Acting Comr. of Indian Affairs, Washington, D. C., for constructing a laundry building with equipment at the Indian Insane Asylum, Canton. Oscar S. Gifford is Supt.

KANSAS CITY, MO.—Sheppard & Farrar, 208 Minor Bldg., have prepared plans for an addition to the plant of the Loose-Wiles Cracker & Candy Co., 150 x 128 ft., in the west bottoms, corner of Eighth and Santa Fe Sts. Estimated cost, $150,000.

JONESBORO, ARK.—The Curtis Mfg. Co., Champaign, Ill., has about completed arrangements for establishment of proposed gasoline engine plant in Jonesboro, it is stated. The new company will be known as Jonesboro Iron & Engine Works. R. B. Curtis and Morgan Brooks, Champaign, Ill.; A. W. Hall, J. B. Mason and D. W. Burns, of Jonesboro, are the incorporators.

OKLAHOMA CITY, OKLA.—Oklahoma City Steel & Iron Works will establish plant for the manufacturing structural steel and machinery. Buildings will be erected and equipped with machinery. Plans have not been completed. Probable cost, $20,000. H. M. Little is Mgr.

LOS ANGELES, CAL.—F. W. Braun, 409 East Third St., is planning the erection of a plant on Third St. for manufacturing mining machinery. Estimated cost of building, $1,000,000.

HANOVER, ONT.—The Hanover Portland Cement Co., Hanover, Ont., has awarded the following contracts for enlarging its plants: CANADA FOUNDRY CO., LTD., 81 St. Peter St., Montreal, Que., for two 250-HP. boilers, condensers and pumps; KILMER & PULLEN, Toronto, one 400-KW. generator; the ROBB ENGINEERING CO., Amherst, N. S., one 500-HP. engine.

WINNIPEG, MAN.—E. L. Drewry, Winnipeg, will erect a bottling plant in connection with his brewery. It will cost about $30,000, exclusive of machinery.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

FIRE HOSE.—Scottdale, Pa.—Bids are asked until 8 p. m., Nov. 18, for 1,050 ft. of fire hose. A. L. Porter is Secy. Council.

DITCH.—Wheaton, Minn.—Bids are asked until Dec. 3, by N. F. Schroeder, County Audr., for constructing Sec. 1 of Ditch No. 2.

BULKHEAD.—Southport, N. C.—Bids are asked by L. Cravens, Q. M., until Nov. 30, for building creosoted bulkhead at Fort Caswell, N. C.

OIL WELLS.—Muncie, Ind.—The Panay Oil Co., recently incorporated with $30,000 capital, is asking for bids for drilling six wells. G. C. Moore is Pres.

DRAINAGE.—Fort Dodge, Iowa.—Bids are asked until Nov. 19 by the County Auditor for constructing drainage works in Drainage Dist. No. 30. C. Anderson, Lake City, Engr.

DITCH.—Madison, Minn.—Bids are asked until Nov. 18 by A. G. Shogren, Audr., Lac qui Parle County, at Madison, for constructing judicial ditch No. 1 in Lac qui Parle and Yellow Medicine Counties.

SEAWALL, ETC.—Newport, R. I.—Bids are asked until 10 a. m., Nov. 22, by Capt. Willis C. Metcalf, Q. M., U. S. A., for construction of coal bin, seawall and railway at the power house at Fort Adams, R. I.

*LUMBER.—Nashville, Tenn.—Bids are asked until 11 a. m., Dec. 14th, by Maj. Wm. W. Harts, Corps Engrs., U. S. A., for furnishing and delivering about 1,258,695 ft. B. M. long leaf yellow pine lumber.

CRIB WHARF.—Thunder Bay, Ont.—Bids are asked by Fred Gelinas, Secy. Dept. Public Works, Ottawa, until Nov. 26, for the construction of a crib wharf and stone approach at this place.

CANAL.—Fort Francis, Ont.—The Dominion Government may build a canal from here to Kenora, a distance of 200 miles. Estimated cost, $500,000. Fred Gelinas is Secy., Dept. Public Works, Ottawa, Ont.

DITCH.—Canton, N. Y.—Bids are asked by the Indian Creek Drainage Comrs. until Dec. 6 for deepening the Van Rensselaer ditch at and near village of Rensselaer Falls, in the town of Canton. E. M. Townsley, Engr.

DOCKS, ETC.—Newark, N. J.—The Common Council on Oct. 22 passed a resolution to submit to a vote of the people of this city the provisions of the Lane Dock Bill, under which the Board of Works proposes to expend $1,000,000 in the acquisition of water rights and the building of docks along Newark Bay, with a ship canal across the meadows to the uplands as part of the scheme.

REVETMENT WALL.—Grand Rapids, Mich.—Bids are asked until 8 p. m., Nov. 14, for constructing revetment wall on Silver Creek, from west line of Roosevelt Ave., to east line of Roy St. Charles M. Wilson, Pres. Bd. Pub. Wks.

CANAL.—Peterboro, Ont.—Bids are asked until Nov. 20 for the works connected with the construction of the Rosedale Section of the Trent Valley Canal. Alex. J. Grant, Peterboro, is Superintend. Engr. L. K. Jones is Secy., Dept. of Railways and Canals, Ottawa.

DAM.—Blue Earth, Minn.—Jesse L. Herring, County Audr., states that J. A. Bachtel, of Easton, Minn.; B. Bierl, of Wells, Minn., and C. H. Garnsey, of Winnebago, have been appointed to arrange plans for the construction of a steel dam at outlet of Walnut Lake.

TELEPHONE SYSTEM.—Gary, Ind.—The Town Board has granted a 50-year franchise to the Chicago Telephone Co. to erect a telephone system in that town. The company proposes to erect a plant at a cost of $500,000. Charles E. Mosley, Secy., 203 Washington St., Chicago.

RUBBER FIRE HOSE.—New York, N. Y.—Bids are asked by Francis J. Lantry, Fire Comr., until 10.30 a. m., Nov. 20, for furnishing and delivering 5,000 ft. of 3½-in. rubber fire hose for fireboats. Also for furnishing and delivering 2,000 ft. of 2½-in. rubber fire hose for fireboats.

GREENHOUSE.—National Soldiers' Home, Va.—Bids were received by John T. Hume, Treas., Southern Branch, N. H. D. V. S., National Soldiers' Home, Elizabeth City County, Va., on Nov. 7 for furnishing all material and labor for constructing a greenhouse. Contract was awarded to the WETHERED CO., Jersey City, N. J., at $7,900.

WHARF.—Berkeley, Cal.—Eight bids were received by the Board of Trustees on Oct. 28, for the construction of a municipal wharf and approach, and all were rejected on Nov. 4th. Specifications were too indefinite, and an injunction suit was threatened. Board will adopt new specifications and readvertise for bids. Full details were given in issue of Oct. 10th. Estimated cost, $100,000.

TRAP ROCK.—New York, N. Y.—Bids were received as follows on Oct. 24 by the Department of Parks, for furnishing and delivering (A) 1,000 cu. yds. broken stone of trap rock, and (B) 5,000 cu. yds. screenings of trap rock (No. 4, 1907), for parks, Boro. of the Bronx: Clinton Point Stone Co., 170 Broadway, (A) $2,330, (B) $11,650; Jacob E. Conklin, (A) $2,250; (B) $11,250.

DITCH. — Emmetsburg, Iowa.—Bids are asked until Dec. 11 by the Board of Supervisors, at the office of Sim R. Stedman, County Auditor, Emmetsburg, for constructing work in drainage districts Nos. 6, 12, 16, 18, 19 and 28, for which G. D. McNab is the engineer, and also for work in Drainage Districts Nos. 15, 23 and 25, of which Guy R. Campbell is the engineer. The work includes excavating and tile work.

CEMENT.—The Secretary of the Interior has awarded contracts for furnishing cement for use in connection with Government irrigation projects as follows: KANSAS PORTLAND CEMENT CO., Independence, Kan., 5,000 bbls. for use on the Payette-Boise project, Idaho, at $1 per bbl., f. o. b. cars at Independence. MARQUETTE CEMENT CO., La Salle, Ill., 12,000 bbls., for South Dakota, Nebraska, and Montana projects, at 88 cts. per bbl., f. o. b. cars at La Salle.

COPPER.—Phoenix, Ariz.—The Secretary of the Interior has executed a contract with ROEBLING'S SONS & CO., Trenton, N. J., for furnishing approximately 685,000 lbs. of copper wire required for the transmission lines and other purposes in connection with the Salt River Irrigation Project, Ariz. The contract price is 15¼ cts. per lb. It is estimated that the recent drop in copper has saved the Government approximately $100,000 on this one transmission line.

REVENUE STEAMERS.—Washington, D. C.—Bids are asked until 2 p. m., Nov. 27, by Beekman Winthrop, Asst. Secy., Treasury Dept., for building for the U. S. Revenue Cutter service a revenue steamer for duty in Puget Sound, to be known while in course of construction or until launched as revenue cutter No. 20; and for the construction of a revenue steamer for duty at Savannah, Ga., to be known while in course of construction or until launched as revenue cutter No. 21.

TUNNEL.—Los Angeles, Cal.—Bids are asked by the Board of Public Works until 11 a. m., Nov. 18, for machinery, apparatus and material for use in the construction of the Elizabeth Lake tunnel. Forms of proposal, contract and bonds and copies of specifications and detailed drawings, will be furnished to prospective bidders upon application to Bureau of Los Angeles Aqueduct 1400 Union Trust Bldg., Los Angeles. Delivery of machinery, etc., must be f. o. b. cars at works and state early date of complete delivery. Horace B. Ferris, Secy.

ELEVATORS, DOCKS, ETC.—Olympia, Wash.—Articles of incorporation of the Boston Harbor Railroad, Steamship & Land Co. have been filed by Clarence D. Hillman and Bessie Olive Hillman. The company is authorized to build grain elevators and freight elevators, docks and wharves; sawmills and flour mills and other factories; to operate pottery and clay works; to build steel works, rolling mills and blast furnaces; to excavate maintain and operate subways; to manufacture the Burch automosleighs and automobiles, etc. The company is capitalized at $1,000,000.

BARGE CANAL.—Albany, N. Y.—In accordance with the resolution passed by the Canal Board at its last meeting, declaring Contract No. 17, Barge Canal, held by the Scofield Co., of Philadelphia, abandoned, P. C. Stevens, Supt. of Public Works, on Nov. 1st formally cancelled the contract. The State forces have taken possession of the company''s plant, and are doing such work as is necessary to protect the present canal and insure the safety of the structures begun by the contractor and left uncompleted. After the completion of this necessary work, it is the intention to readvertise and relet the portion of the contract work remaining unfinished. Plans and specifications for this part of the work will be prepared by Frederick Skene, State Engr.

DOCKS, ELEVATORS.—Memphis, Tenn.—The Mississippi River Terminal Co. has made application for a charter. The incorporators are Columbus Beirce, W. J. Crawford, C. C. Hanson, R. E. L. Martin and G. T. Fitzhugh, all of Memphis. The company is composed of the stockholders of the Gulf Compress Co. It will erect and maintain a terminal, consisting of docks and elevators, at the foot of Livermore Ave., and handle the river cotton for the Gulf Compress Co. The Riverside cotton compress plant, the property of the Gulf Co., is located at the foot of Livermore Ave. and has connection with the Frisco railroad by a spur track 2,000 ft. long. The Riverside compress plant is now under course of construction. The elevator to handle the cotton will be erected at an early date.

U. S. POSSESSIONS AND CUBA.

(denotes that this work is advertised in Engineering News.)*

MACHINERY. — Panama. — The Isthmian Canal Commission, Washington, D. C., has made the following awards for machinery and cement on bids opened recently: 30 steam churn drills, to STAR DRILLING MACHINE CO., Akron, Ohio, at $23,535. Two cross-compound steam condensing and cross-compound air compressors to LAIDLAW-DUNN-GORDON CO., 114 Liberty St., New York, at $18,788. Two horizontal water-tube boilers, to MOTLEY, GREEN & CO., 66 Broad St., New York, $10,575. One horizontal surface condenser to HENRY R. WORTHINGTON, 114 Liberty St., New York, at $3,636. 50 rock drills and equipment to SULLIVAN MACHINERY CO., Railway Exchange Bldg., Chicago, $15,280. 15 steel fuel oil tanks to CANTON BOILER & ENGINE CO., Canton, Ohio, $13,465. 3,000 bbls. of Portland cement, delivered at Colon, to ALPHA PORTLAND CEMENT CO., Easton, Pa., at $5,500 and the same amount at the same price to ALSEN'S PORTLAND CEMENT WORKS, 45 Broadway, New York.

OIL TANKS.—Panama.—Bids were received as follows Nov. 4, by Col. H. F. Hodges, Washington, D. C., Gen. Purchasing Officer, Isthmian Canal Comn., for furnishing 15 oil tanks of various sizes: Bartlett, Hayward & Co., Baltimore, $21,261; 100 days. Edwin Burhorn, 71 Wall St., New York, $18,870; 120 days. Fox Bros. & Co., 126 Lafayette St., New York, $14,989; 50 days. A. D. Granger Co., 90 West St., New York, $23,385; 180 days. Motley, Green & Co., 66 Broad St., New York, $15,500; 120 days; National Electric Supply Co., Washington, $16,789; 110 days. Newport News Shipbuilding & Dry Docks Co., Newport News, Va., $23,175; 200 days. New Jersey Foundry & Machine Co., 9 Murray St., New York, $14,097; 120 days. Tippett & Wood, Phillipsburg, N. J., $17,184; 130 days. Canton Boiler & Engine Co., Canton, Ohio, $13,465; 120 days. Robb-Mumford Boiler Co., 90 West St., New York, $24,490; shipment, 60 days. Harry Bros. Mfg. Co., Carrollton Ave., New Orleans, $14,900; 120 days shipment.

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—
Pittsburg, f. o. b. cars—Angle bars, 1.65 to 1.75 cts.; spikes, 2.10 to 2.15 cts.; bolts, square nuts, 2.65 to 2.75 cts.; bolts, hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—
New York—at mill—New standard sections, $28; standard, second quality, $27 to $28; light sections, 12 to 14 lbs., $34 to $36; old iron rails, f. o. b. New York, $20 to $21; old steel rails, short lengths, $14 to $14.50; old steel rails, re-rolling lengths, $13.50 to $14.
Pittsburg—Standard sections, at mill, $28; standard, second quality, $27.50 to $28; light rails, 25 to 45-lb., $30; 20-lb., $31; 16-lb., $32; 12-lb., $34; 10-lb., $36, and 8-lb., $40.

STRUCTURAL MATERIALS—
New York—at tidewater—Beams and channels, up to 15-in., 1.86 cts.; over 15-in., 1.86 cts.; angles 3 x 2 and up to 6 x 6, 1.86 cts.; zees, 3-in. and larger, 1.90 cts.; tees, 3-in. and larger, 1.91 cts.; steel bars, half extras, 1.76 cts.
Pittsburg—Beams and channels, up to 15-in., 1.70 cts.; over 15-in., 1.80 cts.; angles, 3 x 2 x ¼-in. thick, up to 6 x 6-in., 1.70 cts.; 8 x 8 and 7 x 3½-in., 1.80 cts.; zees, 3-in. and larger, 1.70 cts.; tees, 3-in and larger, 1.75 cts.; bulb angles and deck beams, 2 cts. Under the steel bar card, angles, channels and tees under 3-in. are 1.70 cts., base, for Bessemer and open hearth, subject to half extras on the standard steel bar card.

PLATES AND SHEETS—
New York—at tidewater—The following prices are based on carload lots, with 5 cts. extra for less than carload lots. Terms, net cash in 30 days:

Tank plates, 6¼ to 14 ins. wide	$1.86 to $1.96
14½ to 100 ins. wide	1.96 to 2.00
Flange and boiler test	1.96 to 2.06
Marine	2.26 to 2.36
Locomotive, fire-box	2.75 to 3.50
Still bottoms	2.14 to 2.29½

Note—Plates more than 100 ins. in width, 5 cts. extra per 100 lbs.; plates 3-16-in. in thickness, $2 extra; Nos. 7 and 8 gage, $3 extra; No. 9, $5 extra.
Pittsburg—Tank, ¼-in. thick and heavier, 1.70 to 1.80 cts.; black sheets, 27-gage, 2.50 to 2.55 cts.; black sheets, 28-gage, 2.60 to 2.65 cts.

IRON—
Pig Iron:
At New York—tidewater—

Northern—	
No. 1 X foundry	$22 to $22.50
No. 2 X foundry	1[illegible] to 22.00
No. 2 plain	1[illegible] to 21.50
Gray forge	1[illegible] to 21.00
Basis	1[illegible] to 20.50
Virginia—	
No. 1 foundry	24 to 24.75
No. 2 foundry	24 to 24.25
Basic	21 to 22.00
Southern—	
No. 1 foundry	22 to 24.75
No. 2 foundry	21 to 24.25
No. 3 foundry	21 to 23.75
No. 4 foundry	20 to 23.25
No. 1 soft	20 to 22.75
No. 2 soft	19 to 22.25
Gray forge	19 to 21.75
Mottled	18 to 21.25
At Pittsburg, f. o. b. cars—	
No. 2 foundry	22 to 23.00
Gray forge	21 to 22.00
Bessemer iron	22 to 22.50
Ferromanganese	56 to 60.00
At Chicago—	
Lake Superior Charcoal	26 to 26.50
Northern Coke Foundry, No. 1	22 to 22.50
Northern Coke Foundry, No. 2	21 to 22.00
Northern Coke Foundry, No. 3	21 to 21.50
Northern Scotch No. 1	22 to 23.00
Ohio Strong Softeners, No. 1	22 to 23.00
Ohio Strong Softeners, No. 2	22 to 22.50
Southern Coke, No. 1	21.85 to 22.35
Southern Coke No. 2	21.35 to 21.85
Southern Coke, No. 3	20.8[illegible] to 21.35
Southern Coke, No, 4	20.3[illegible] to 20.85
Southern Coke, No. 1 Soft	21.85 to 22.35
Southern Coke, No. 2, Soft	21.3[illegible] to 21.85
Southern Gray Forge	19.3[illegible] to 19.85
Southern Mottled	20.3[illegible] to 20.85
Malleable Bessemer	22.00 to 22.50
Standard Bessemer	23.90 to 24.40
Jackson Co. and Kentucky Silvery, 6%	30.40 to 30.90
Jackson Co. and Kentucky Silvery, 8%	32.40 to 32.90
Jackson Co. and Kentucky Silvery, 10%	34.40 to 34.90

Cast-iron Pipe:
New York—Carload lots, net tons, 6-in., at tidewater, $32.50 to $33.
Chicago—4-in. water pipe, $37 to $38; 6-in. to 12-in., $36 to $37; over 12-in. $35 to $36, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—
Asphaltum:
Ventura and other California asphalts, $20 to $23 per ton at New York; Trinidad refined, $22 to $25 per ton; Venezuela asphalt, $25 to $60 per ton; Bermuda asphalt, $25 to $35.
Cement:
Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.
Copper:
Lake, 14½ cts.; electrolytic, 14 to 14¼ cts.; casting, 13¾ to 14 cts.
Lead:
New York, spot, 4.55 to 4.65 cts.
Spelter:
New York, spot, 5.40 to 5.45 cts.
Tin:
New York, spot, 31½ to 32 cts.
Tar:
New York, $5.85 to $6 per bbl.
Pitch:
New York, $3.20 per bbl.

LUMBER—
New York, wholesale prices:
Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50; 80 ft. and up, $16.
Railroad ties—Yellow pine, 6 x 9 ins. x 8 ft., 67 to 69 cts.; 6 x 8 ins. x 8 ft., 62 to 64 cts.; 7 x 9 ins. x 8 ft., 75 to 77 cts.; 7 x 8 ins. x 8½ ft., 74 to 76 cts., 7 x 9 ins. x 8½ ft., 79 to 80 cts.

CIVIL SERVICE EXAMINATIONS.

CLERK-TRANSLATOR-TYPEWRITER. — Porto Rico.—An examination will be held on Dec. 11 by the U. S. Civil Service Commission, to secure eligibles to fill a vacancy in the position of clerk, at $1,200 a year, Engineer Department-at-Large, San Juan, P. R., and vacancies requiring similar qualifications as they may occur in any branch of the service. Age limit, 25 to 45 years of age. Application Form 304.

CATALOGER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Dec. 11, to secure eligibles from which to make certification to fill two vacancies in the library division of the Bureau of Education, Dept. of the Interior, at $900 and $1,000 a year respectively, and vacancies requiring similar qualifications as they may occur in any branch of the service. Age limit, 20 years or over. Application Form 1312.

LABORATORY AID AND ENGINEER (Male).—Washington, D. C.—On Dec. 18 an examination will be held by the U. S. Civil Service Commission to secure eligibles to fill a vacancy in the position of laboratory aid and engineer (male), at $7[illegible] a year, in the Forest Service, Dept. of Agriculture, and vacancies requiring similar qualifications as they may occur in that service. Age limit, 18 years or over. Application Form 1312.

ASSISTANT CHEMIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Dec. 11-12 to secure eligibles from which to make certification to fill vacancies as they may occur in the position of assistant chemist, at salaries from $1,200 to $1,800 a year, in the Bureau of Chemistry, Dept. of Agriculture. The Department states that the higher salaries will be paid only to those who have had

first-class training and considerable experience at miscellaneous work other than that obtained in a college or university course in chemistry, and that recent graduates and chemists who have not had wide and varied experience in analytical work may expect the possibility of the lower salaries. Age limit, 20 years or over. Application Form 1312.

NATURALIZATION EXAMINER.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on Nov. 27 to secure eligibles to fill a number of vacancies in the position of naturalization examiner, in the Department of Justice, at salaries of $1,200 a year and upward, depending upon the qualifications shown, and vacancies requiring similar qualifications as they may occur in that Department. Copies of the Naturalization Laws and Regulations of October, 1906, may be obtained from the Division of Naturalization, Bureau of Immigration and Naturalization Dept. of Commerce and Labor, Washington, D. C. It is desired to secure persons who are able to speak at least one of the following languages: Bohemian, Croatian, Danish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Roumanian, Russian, Ruthenian, Slovak, Swedish, Syrian, Yiddish (Hebrew jargon). It is also desired particularly to secure persons of Italian birth or descent who have had experience or been placed in trying situations of such a character as to test their personal courage and endurance. Age limit, 20 years. Application Forms 1312 and 1672, and a copy of Form 1141 if any of the languages are selected.

COMPUTER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Dec. 4-5 to secure eligibles from which to make certification to fill three vacancies in the position of miscellaneous computer, Naval Observatory, Washington, D. C., and similar vacancies as they may occur in that observatory. The Department states that miscellaneous computers are paid by the hour and earn from $1,000 to $1,200 a year. Promotions are made from this grade, without further examination, to the grade of assistant, at $1,200 a year, as vacancies occur. As an insufficient number of eligibles to meet the needs of the service were secured from previous examinations held for this position, qualified persons are urged to enter this examination. Age limit, 20 years or over on the date of the examination, but preference in appointment will be given to eligibles under 35 years of age. Application Form 1312.

NAUTICAL EXPERT.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Dec. 11, to secure eligibles from which to make certification to fill a vacancy in the position of nautical expert, at $1,000 a year, in the Hydrographic Office of the Navy Dept., and vacancies requiring similar qualifications as they may occur in that office. As the Commission has experienced considerable difficulty in securing eligibles for this position, qualified persons are urged to enter this examination. At the request of the Department, applications will not be accepted from persons who have not attended for at least two years a nautical school of no less a grade than the schools maintained upon the scholarships of the States of Massachusetts, New York and Pennsylvania, or who have not served for at least three years on board vessels navigating either the Great Lakes or the ocean. Age limit, 20 years. Application Form 1312.

DRAFTSMAN-CARTOGRAPHER (Male).—Philippines.—The U. S. Civil Service Commission announces an examination on Nov. 27, to secure eligibles from which to make certification to fill two vacancies in the position of draftsman-cartographer in the Philippine Service, at $1,800 a year each, and vacancies requiring similar qualifications as they may occur in the Philippine Service. The duties of one of these positions will be the systematic arrangement of all the cartographic material in the hands of the Philippine Government so as to render useful and accessible; those of the other will be the compilation and construction of maps from data of unequal value. Applicants who possess a technical training, who have had a fair amount of excellent experience in surveying work and plotting, and who are passable draftsmen will be eligible, but preference, other things being equal, will be given to those who have had experience in cartographic work. Men only will be admitted to this examination. Age limit, 18 to 40 years. Application Forms 2 and 375 and a copy of the Manual of Examinations.

INDUSTRIAL NOTES.

THE BRUNER STEEL WAGON CO., Wapakoneta, O., states that in order to take care of its rapidly increasing business, it has increased the capital stock of the company from $50,000 to $100,000.

THE GENERAL FIREPROOFING CO., Youngstown, O., announces the removal of its Washington offices from 420 Colorado Bldg. and 501 Fourteenth St., to 725 Fourteenth St., N. W., corner of New York Ave. W. A. Kennedy is District Manager.

THE SOUTHWESTERN BRIDGE CO., of Joplin, Mo., has opened contracting offices as follows: 806 Wilson Bldg., Dallas, Tex., J. I. Boggs, Cont'g Engineer; 317 Culbertson Bldg., Oklahoma City, Okla., R. X. Basford, Cont'g Engineer; 726 Symes Bldg., Denver, Colo., George A. Sears, Cont'g Engineer.

THE TREMONT & SUFFOLK MILLS of Lowell, Mass., will add to the present power equipment, recently purchased, a 1,500-KW. Allis-Chalmers Turbine direct coupled to a 2,000-KW. Generator wound for 60-cycle, 3-phase circuits to operate at a speed of 1,800 R. P. M. The new equipment includes in addition to the main unit two exciter units one motor and the other engine driven 50 KW.

WE ARE ADVISED that the firm name of Gwathmey-Mackall Engineering Co., Norfolk, Va., has been changed and that it is now the Gwathmey Engineering Co. Chas. G. Mackall and B. F. Mackall have retired from the firm. W. W. Gwathmey continues as President.

THE SULLIVAN MACHINERY CO., Railway Exchange, Chicago, announces that the Birmingham branch office of the company is now located at 1 Twentieth St., south. Additional space is thus provided for Sullivan rock drills and their parts and for other mining and quarrying machinery carried in stock at this office.

THE OLIVER TYPEWRITER CO. has recently purchased new power and electrical units for the plant at Woodstock, Ill., comprising a 22" × 42" Allis-Chalmers Horizontal Heavy Duty Corliss Engine direct connected to a 300-KW. 240-volt direct-current generator of the same build for carrying the power and lighting load.

AMONG THE NOTABLE ORDERS for Allen Riveting Machines recently reported by John F. Allen, 370-372 Gerard Ave., New York City, is one for a Stack Riveter that will reach 84" into a stack 8" in diam. and drive 1" hot rivets or ½" cold rivets. This riveter, which is of unusual size and capacity, is going to the Hawley Down Draft Co., Chicago, Ill.

THE MacKINNON BOILER & MACHINE CO., Bay City, Mich., states that it is installing additional machinery in the boiler works, consisting of Kling rotary splitting shears, capacity ¾-in. plate; Lennox bevel shears, capacity ¾-in. plate; Whiting punch, 48-in. throat, and a high speed cold saw, with a capacity of cutting a 15-in. 42-lb. beam in 28 seconds.

THE AMERICAN DITTLER SEWAGE DISPOSAL CO., 1123 Broadway, New York, announces that it has elected to its Board of Directors of the engineering staff the following: Richard Godeffroy, Consulting Engineer, Pres.; Augustus C. Hepp, Chief Engineer, Vice-Pres.; William H. Schladitz, Mechanical Engineer, Secy. and Treas. The company finds it will better meet the interests and wishes of its clients in having its engineers on the Board of Directors.

THE EXPANDED METAL & CORRUGATED BAR CO., St. Louis, Mo., is furnishing the reinforcement required in the construction of the Pennsylvania Railway Terminal Station, Seventh to Ninth Ave. from 31st to 33d Sts., New York City. An order for one thousand tons of corrugated bars has been placed with the above company by the contractor—the National Fireproofing Co. McKim, Mead & White are the architects for this work.

THE PRESSED STEEL CAR CO. AND THE WESTERN STEEL CAR & FOUNDRY CO. have opened offices in the National Bank of Commerce Bldg., Fifth and Olive Sts., St. Louis, with W. P. Coleman and his assistant, C. D. Terrell, in charge. The business in the southwest territory has increased so steadily of late that the management of these car companies has found it necessary to have representatives located in the principal city of that section.

THE INTERCOLONIAL ENGINEERING CO., 126 Liberty St., New York, has opened offices at the above address to conduct a general engineering business and to act as manufacturers' agents, its specialty being the design and equipment of power and industrial plants with particular attention paid to the economical handling of materials. The European branch, with headquarters in Paris, has connections in every country of Europe and is in a position to place meritorious machinery of American manufacture before the trade of the continent.

J. W. WAGENHORST & CO., Youngstown, O., announce large sales of the Wagenhorst Electric Blue Printing Machines and list the following as a few more recent shipments: Eugene Dietzgen Co., Toronto, Ont.; H. W. Caldwell & Son Co., Chicago, Ill.; Betts Machine Co., Wilmington, Del.; Green Fuel Economizer Co., Matteawan, N. Y.; Atlantic Terra Cotta Co., Tottenville, N. Y.; Kansas City Structural Steel Co., Argentine, Kan.; Sawyer & Garstin, Colorado Springs, Colo.; H. Vogt Machine Co., Louisville, Ky.; Toledo Machine & Tool Co., Toledo, O.; S. G. Fetterman Engineering Co., Johnstown, Pa.; American Locomotive Works, Schenectady, N. Y.; H. L. Sprague, Springfield, Mass.; R. M. Jones Co., Muskogee, I. T.; Ajax Forge Co., Chicago, Ill.

WE ARE IN RECEIPT of a letter from G. G. Lay, American Consul-General at Cape Town, South Africa, in which he states that a Commercial Information Bureau and Reading Room is about to be opened by the Consulate, with the intention of furnishing accurate information, prices and discounts of as many articles as possible manufactured in the United States to purchasers of American goods in South Africa. Circulars are being distributed in South Africa which will bring the Bureau to the notice of those likely to be interested, and inviting correspondence. It is therefore of the utmost importance, to make this Bureau a success, that a large number of American manufacturers should send to this Consulate-General their catalogues with lowest prices and exact export retail and wholesale discounts, giving the name and address of their agents in South Africa and other useful information.

A RECENT CONTRACT awarded Frank P. Gilbreth, of New York, is for a can factory for the Seacoast Canning Co., at Eastport, Me. The architect and engineer is Charles T. Main, of Boston, Mass. The structure is to be two stories in height, 120 ft. wide by 130 ft. long. The first floor will be of reinforced concrete designed for a live load of from 200 to 900 lbs., while the second story and roof will be of the slow-burning type of mill construction. Brick curtain walls will enclose the building. The interior partitions will be of reinforced concrete. Stairways and trimmings will be of fireproofed wood. The site of the proposed building is at tidewater, where at high tide water will surround it on three sides. Since the rise and fall of the tide at times gives a variance of 20 ft., the construction will present problems of more than ordinary interest. To insure security, massive foundations of granite, averaging 25 ft. in height, will be placed beneath the structure proper.

THE PARKER BOILER CO., Philadelphia, Pa., reports the receipt of an order from the Southern Pacific Co. for twelve 645-HP. boilers and superheaters, to be installed in a new power plant at Oakland, Cal. Also an order from the University of Pennsylvania for two 468-HP. boilers.

J. G. WHITE & CO., 43 Exchange Pl., New York, operating managers and purchasing agents for the Eastern Pennsylvania Railways Co., have just ordered electrical railway material to the amount of $200,000 for the Tamaqua and Middleport, connecting link between Mauch Chunk and Pottsville. The order includes all the material required for the permanent way and overhead electrical work of a standard interurban railway. Considerable grading has already been done. When the line is finished Pottsville and neighboring towns will be nearer New York in actual time by trolley to Mauch Chunk and the Lehigh Valley Railroad than by the usual railroad detour through Philadelphia.

THE NEW YORK OFFICES of the Raymond Concrete Pile Co., of Chicago and New York, are now in Suite 1,300, on the 13th floor of the West Street Bldg., Cedar and West Sts. The large increase in volume of business made it imperative for the Raymond Company to secure more commodious quarters. Among the recent work executed by the Raymond Concrete Pile Co. are the concrete pile foundations of the branch of the Carnegie Library at 742 Tenth Ave., New York, Babb, Cook & Willard, Architects; Public Bath No. 1, Brooklyn, Raymond F. Almirall, architect; the power house of the Home Electric Light & Power Co., Tyrone, Pa.; storage, stable and stock buildings of the Brooklyn Rapid Transit Co., at the Penn Hill Siding, Brooklyn, N. Y., H. J. Kolb, assistant engineer. Among contracts recently awarded is one from J. R. Savage, chief engineer of the Long Island Railroad. This contract is for the concrete pile foundations of the conduit line in the North Shore yards, Long Island City. The conduit, which will be of concrete, will carry the electric feed wires of the Long Island system. An important contract which is now being executed in the vicinity of New York is the concrete pile foundations of the new group of hospital buildings for the treatment of contagious diseases at the immigrant station at Ellis Island. This work, which is being done under the supervision of F. S. Howell, the government's engineer in charge of construction at the station, is of a rather difficult character, due to the nature of the soil. The soil consists entirely of fill, very soft and sticky and largely interspersed with rock and debris from dredging.

THE MEADE TESTING LABORATORIES have been established for the inspection and testing of cement, and located in the Young Bros. Buildig, Nazareth, Pa. The equipment of the laboratories is of the most improved form, and is designed to carry out the standard tests of the American Society of Civil Engineers, as well as any special tests desired by engineers and architects. The staff of the laboratories includes Richard K. Meade, the Director, and Clarence E. Kline, the Engineer of Tests, and all the work undertaken by the laboratories will be placed in expert hands. The Meade Testing Laboratories will make a specialty of the inspection of cement at the mill, their location in the center of a large Portland cement producing section enabling them (except in a few rare cases) to have tests upon the shipment completed before its arrival at the point of use, enabling the contractor to immediately unload and use the cement, thus saving demurrage charges upon the cars, or extra handling and storage of the cement. The inspection of cement upon large orders will also be undertaken at other points than at Lehigh Valley Mills.

TRADE PUBLICATIONS.

FILTERING PAPERS.—Henry Heil Chemical Co., 210 So. Fourth St., St. Louis Mo. Circular; 8½ × 14 ins.

This is a price list of filtering papers for chemical analyses, etc. The papers are imported from Germany.

TAPPING MACHINES.—Water Works Equipment Co., 180 Broadway, New York. Card; 7¼ × 9¼ ins.; illustrated.

Cuts are shown of tapping machines with 10-, 12-, 16-, 20- and 24-in. cutters, provided with electric-motor and gasoline-engine drives, respectively.

INTERURBAN RAILWAY SUPPLIES.—General Electric Co., Schenectady, N. Y. (Supply Dept.). Bulletin 4538. Paper;; 8 × 10½ ins.; pp. 32; illustrated.

This bulletin shows the details of the heavy catenary line construction made necessary by the advance of interurban practise.

VALVES AND FITTINGS FOR AMMONIA.—Crane Co., Chicago, Ill. Cloth; 4 × 6¾ ins.; pp. 125; illustrated.

The extent to which specialization in various industries has gone is well illustrated by the fact that so large and diversified a catalog as this should be published, to deal with valves and every other fitting for use in plants producing or making use of ammonia. Various dimension tables are given, and also a considerable number of tables relating to ammonia and allied subjects.

GENERATORS AND MOTORS.—Fort Wayne Electric Works, Fort Wayne, Ind. Bulletins 1098 and 1100. Paper; 8 × 10½ ins; pp. 8 (each); illustrated.

These two bulletins treat generally of the mechanical and electrical design of belted generators for light and power and of small direct curfent motors.

VALVES AND FITTINGS FOR AMMONIA.—The Crane Co., Chicago, Ill. Cloth; 4¼ × 6½ ins.; pp. 125; illustrated.

This is an illustrated catalog and price-list of supplies, together with several pages of tabular matter concerning the properties of ammonia, and other information relative to refrigerating work.

IRRIGATION PUMPS.—The American Well Works, Aurora, Ill. Paper; 3¼ × 6 ins.; pp. 16.

This little pamphlet deals with the cost of plant and operation of pumping water from deep wells for irrigation, and also the features to be observed in designing pumping plants of this kind.

RAIL ANCHOR.—Scott Mfg. Co., Racine, Wis.; and American Railway Device Co., 105 So. Clinton St., Chicago. Paper; 3½ x 6¼ ins; pp. 8; illustrated.

The Racine rail anchor is a device for preventing the creeping of rails, either on open track or at track crossings, drawbridges, etc. It is said to be in use on a number of railways.

DRAWING TABLES, ETC.—The Economy Drawing Table Co., 1303 Utah St., Toledo, Ohio. Paper; 5¼ × 8¼ ins.; pp. 24; illustrated.

Drawing tables for engineers, architects, draftsmen, etc., and filing cases for drawings and tracings, are shown in this pamphlet in very complete form. Testimonials are given from a number of prominent engineering companies.

COAL AND ASH HANDLING MACHINERY.—The Jeffrey Mfg. Co., Columbus, Ohio. Catalog D; paper; 6 × 9 ins.; pp. 56; illustrated.

This catalog consists mainly of a series of diagrams and photographs of existing installations of Jeffrey plants. The diagrams—line drawings—will be of considerable value in determining the type of plant for any existing need.

INSULATING MATERIAL.—Mica Insulator Co., 218 Water St., New York; 358 Dearborn St., Chicago. Cloth; 6 × 4 ins.; pp. 16.

The Micanite made by this company is in various forms for different purposes, and sample sheets of the micanite paper, cloth, plates, etc., are alternated with the printed pages. An insulating compound is also included.

RAILWAY CROSSING GATES.—Buda Foundry & Mfg. Co., Chicago. Paper; 6 × 9 ins.; pp. 48; illustrated.

These gates are of the familiar swinging arm type, operated by crank handles in the posts or by compressed air from pumps installed in the gatemen's cabins. A variety of applications are shown, and there are drawings of the cabins and mechanism, with a code list of repair parts.

CONCRETE MIXERS.—Chicago Concrete Machinery Co., 20 So. Canal St., Chicago. Paper, 8¾ × 5¾ ins.; pp. 16; illustrated.

The "Chicago" mixer is of the drum type; it revolves continuously and discharges its load without tilting. The illustrations show several power-driven portable plants. One of the specialties is a feeding hopper in which the materials for a second batch can be placed while the first batch is being mixed. Wheelbarrows and carts for handling concrete are also shown.

WHEELBARROWS AND CONCRETE CARTS.—Sterling Wheelbarrow Co., 238 Oregon St., Milwaukee, Wis. Paper; 6 × 9¼ ins.; pp. 12; illustrated.

This is an illustrated catalogue and price list of wooden and steel wheelbarrows of different forms for general and contract work; there are special designs for handling concrete. The carts are of 4½ to 7½ cu. ft. capacity, mounted on 30-in. wheels and easily dumped; they are operated by hand. Roller bearings are used on all these machines.

SEWAGE DISPOSAL FOR ISOLATED BUILDINGS.—House-Sewage Disposal Co., 6515 Normal Ave., Chicago, Ill. Paper; 7 × 10 ins.; pp. 16; illustrated.

In this pamphlet Mr. Burton J. Ashley again describes and illustrates his adaptation of the septic tank and sub-irrigation to the disposal of the sewage of country houses and other isolated buildings. Very little specific information is given regarding his scheme, but more particulars can be found on page 119 of Engineering News for Jan. 31, 1907. The pamphlet contains various quotations of matter relating to sewage disposal, and also a number of testimonials from users of Mr. Ashley's method.

STEEL TOOLS, HAND AND POWER, ETC.—The Scully Steel & Iron Co., Chicago. New office: 2 Rector St., New York City. Nov. and Dec. stock list; paper; 4½ × 7 ins.; pp. 144; illustrated.

The company calls especial attention to its new Eastern office. The stock list includes raw and formed material, such as steel, boiler tubes, rivets, bolts and nuts, etc. Prices are given.

PHOTOGRAPH OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.

At the recent Milwaukee convention of the Association of Railway Superintendents of Bridges and Buildings (reported in our last week's issue) a group photograph of those in attendance was taken by the Natural Carbon Paint Co. of Freeport, Ill. Copies of this photograph will be sent free by that company to any member of the Association or others interested on request.

BLOCK SIGNALS FOR ELECTRIC RAILWAYS.—General Railway Signal Co., Rochester, N. Y. Paper; 6 × 9 ins.; pp. 18; illustrated.

The automatic electric block signal system used on the Philadelphia & Western Electric Ry. is described in this pamphlet. This road is a suburban and interurban line built for high speed and heavy traffic, the headway varying from two minutes near the city to five minutes in the outlying portions. Two-position semaphore signals are used, with an overlap, and are operated by a 25-cycle single-phase alternating current.

WATER AND AIR HEATERS FOR BREWERIES AND MALT HOUSES.—The Green Fuel Economizer Co., Matteawan, N. Y. Bulletin No. 112; paper; 6 × 9 ins.; pp. 16; illustrated.

The title of this bulletin is "Economical Heating of Water and Air in Breweries and Malt Houses." The first seven pages are devoted to a reprint of an article by Herr C. Eberle, of Munich, on "The Influence of Boiling by Steam on the Boiler Plants of Breweries," in which it is shown that the highest economy is reached only when both the exhaust steam from the different machines about the brewery, and the waste gases from the boiler furnace, are utilized for producing hot water. The second part takes up the use of warm or cold and moistened air for promoting germination, and of the use of hot dry air in the malt kiln. By utilizing blowers to move this air, much quicker and better results may be obtained than by methods relying upon natural draft. It is also possible to run the plant to full capacity at all times of the year, and in all conditions of the weather.

STORAGE BATTERIES.—Gould Storage Battery Co., 341 Fifth Ave., New York City. Bulletin 8 and 9; paper; 8 × 10½ ins.; pp. 10 (each); illustrated. Pamphlet; paper; 6x9 ins.; pp. 20; illustrated.

Bulletin No. 8 is a reprint from the "Electrical Review" of an article on the storage battery plants of the Dayton and Western Ry. in connection with the interurban distribution system. In this system ordinary series boosters were replaced by separately excited boosters with storage battery plants. A heavy reduction of operating expenses resulted from the more constant load obtained.

Bulletin No. 9 contains an article on the application of a storage-battery booster system to the regulation of alternating current load derived through rotary converters from a direct-current street and interurban railway. Close regulation was essential as lighting circuits were to be operated upon the same high tension generators.

The small pamphlet bears the title "Facts; A Description of Gould Plates," which indicates the character of the contents.

LEADITE.—The Leadite Co. of America, 1215 Filbert St., Philadelphia, Pa. Paper; 5¼ × 7¼ ins.; pp. 24; illustrated.

A substitute for lead as a jointing material for cast-iron water and other mains, which would be materially lighter in weight and cheaper in price than lead, and which was as satisfactory in every other way, would certainly be very welcome. This pamphlet describes a material for which all these things are claimed. Leadite is said to be composed of mineral ingredients, and to weigh, when melted into block form, 118 lbs. per cu. ft., as compared with 708 lbs. It is said "that 1 ton of leadite will do as much work as 4 tons of lead." The material is put up in powder form, in boxes containing 100 lbs., or barrels of 350 lbs. The powder is melted and then poured into the joint, but it is claimed for it that no calking is required, as in the case of lead. A number of testimonials from well-known water-works officials, certifying to the satisfactory use of the material, are included in the pamphlet.

For other Proposal Advertisements see pages 55, 56, 57, 58, 59, 60, 61, 62 of Advertisements and Construction News page 162.

STORM WATER SEWERS.

Department of Board of Public Works,
Reading, Pa., Oct. 29th, 1907.

Sealed proposals will be received at the office of the City Clerk of Reading, Pa., until 2 P. M., Wednesday, Nov. 20, 1907, for the construction of the following storm water sewers:

The extension of the Northeastern Intercepting Sewer from Eleventh and Greenwich to Twelfth and Walnut Streets with laterals on Green, Buttonwood, Elm, Fidelity and Walnut Streets, and on Canal Street from Fourth to Canal Street Sewer, and the extension of the Rose Valley Creek Sewer from present sewer on Neversink Street to the river.

Each bid must be accompanied by proposal bond or certified check in the following amounts, to wit:

Extension of the Northeastern Intercepting Sewer, twenty-five hundred ($2,500.00) dollars.

Canal Street Sewer, one hundred ($100.00) dollars.

Rose Valley Creek Sewer, two thousand ($2,000.00) dollars.

And the successful bidder will be required to enter into a contract bond in the sum of forty (40%) per centum of the estimated amount of each contract.

Blank forms of proposal bonds can be obtained and specifications seen at the office of the City Engineer.

All proposals must be endorsed "Proposals for Storm Water Sewers," and addressed to Board of Public Works, care of Caleb Weidner, City Clerk.

The right is reserved to reject any or all bids.

By order of the Board of Public Works.
ELMER H. BEARD,
20-1t City Engineer.

PIPE SEWERS.

Department of Board of Public Works.
Reading, Pa., Oct. 29th, 1907.

Sealed proposals will be received at the office of the City Clerk of Reading, Pa., until 2 P. M. of Wednesday, Nov. 20th, 1907, for the construction and laying of about—

27,600 lineal feet of 10-inch pipe sewer,
32,500 lineal feet of 5-inch pipe sewer,

together with all the Y's and manholes in House Sewer District No. 12.

A certified check upon a National Bank, or a Trust Company proposal bond in the sum of fourteen thousand ($14,000.00) dollars must accompany each bid, and the successful bidder will be required to enter into a contract bond with a Trust Company, existing under the laws of Pennsylvania, or one authorized to do business in the State of Pennsylvania, in the sum of 40 per centum of the estimated amount of contract.

Plans and specifications can be seen and blank forms of proposals obtained at the office of the City Engineer, Reading, Pa.

Payment for the proposed work will be made in improvement bonds.

All proposals must be endorsed "Proposals for Construction of Sewer in 12th House Sewer District," and addressed to Board of Public Works, care of Caleb Weidner, City Clerk.

The right is reserved to reject any or all bids.

By order of the Board of Public Works.
ELMER H. BEARD,
20-1t City Engineer.

ELECTRIC LIGHT WORK.

Chinook, Mont.

Sealed proposals for the construction of a system of Electric Light Works will be received by the Town Council of Chinook, Montana, at the office of its clerk until 2 o'clock P. M., December 21st, 1907, when the same will be opened and publicly read. Proposals sent by mail should be addressed to Jno. C. Duff, Town Clerk, Chinook, Montana, and marked "Proposal for a system of Electric Light Works."

It is the intention of the Town of Chinook, that the bidder under the specifications shall cover all of the apparatus, supplies, machinery, building and everything pertaining to the entire installation in any way.

All bids under the specifications shall be accompanied by a certified check, payable, unconditionally, to the Town Treasurer of Chinook, Montana, amounting to ten (10) per cent. of the total bid submitted.

Plans and specifications of said system of Electric Light Works are on file and can be seen at the office of the Town Clerk, and copies can be obtained by addressing said Town. Clerk.

The Town Council reserves the right to reject any and all bids.

By order of the Town Council.
JNO. C. DUFF,
20-5t Town Clerk.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 11, 1907.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 2nd day of January, 1908, and then opened, for the construction of an Extension to and the remodeling, etc., of the U. S. Post-Office at South Bend, Ind., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Custodian at South Bend, Ind., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 20-2t

Situations Wanted

Civil Engineers.

GRADUATE CIVIL ENGINEER, 4 years' experience in office and field, structural steel and masonry design, desires position at drafting or construction with engineer or contractor in New York City. Address "E. B. 20," Engineering News, New York. 20-2t

RAILROAD ENGINEER, with 5 years' experience, will be open for engagement shortly. Address "W. B. 20," Engineering News, New York. 20-3t

INSTRUCTOR in surveying, railroads, bridge design and testing laboratory, desires appointment in department of civil engineering of technical school. Four years' teaching experience and six in practice. Splendid references. Address "P. A. 20," Engineering News, New York. 20-1t

CIVIL ENGINEER (33), 10 years' experience railroad location and construction, seeks first-class appointment. Authority on tunnels, retaining walls, abutments, etc. Speaks Spanish. No objection to tropics. First-class references. Address "M. A. 20," Engineering News, New York. 20-1t

Bridge and Structural Engineers.

STRUCTURAL ENGINEER, with large experience and excellent references, a first-class designer and detailer, familiar with building work and bridge work, wants a position. Address "B.," 520 W. 162d St., New York. 20-2t

STRUCTURAL ENGINEER, 5 years' experience, desires responsible position. Address "S. B. 20," Engineering News, New York. 20-3t

EXPERIENCED structural steel checker and detailer desires a position. Address "C. B. 20," Engineering News, New York. 20-1t

DRAFTSMAN, experienced in structural steel and reinforced concrete work, desires change. Address "Z. B. 20," Engineering News, New York. 20-3t

STRUCTURAL ENGINEER, 10 years' experience, buildings, bridges, conveyors, wants position, preferably in charge of work; moderate salary. Address "G. B. 20," Engineering News, New York. 20-3t

Surveyors.

STUDENT, 23 years, wants position as rodman with civil engineering firm or railroad, with chance of advancement. References. W. BARRACLOUGH, 5239 Baltimore Ave., Philadelphia, Pa. 20-3t

Draftsmen.

DRAFTSMAN, reliable computer, seeks employment on steel railway car, machine design or mill work. "P. E. L." 359 West 15th St., New York. 20-3t

STRUCTURAL DRAFTSMAN, 23, desires position; 4 years' experience on building construction. Best reference. Address "D. B. 20," Engineering News, New York. 20-1t

POSITION WANTED as chief draftsman by college graduate, 32 years of age; 6½ years' experience detailing, checking, estimating and designing on buildings and bridges. Address "F. B. 20," Engineering News, New York. 20-2t

STRUCTURAL DRAFTSMAN desires position at once; salary required, $18 per week. Address "A. B. 20," Engineering News, New York. 20-3t

ENGINEERING STUDENT seeks position as tracer in bridge engineer's office. Address CHARLES MARSHALL, Route No. 2, Woodstown, New Jersey. 20-1t

EXPERIENCED mechanical draftsman, 25 years old, graduate of German university; 2 years' practical experience in Europe, 1 year in America; wants position. Address "H. B. 20," Engineering News, New York. 20-1t

Superintendents, Misc., etc.

CONSTRUCTION SUPERINTE[illegible]NT, assistant, general foreman, e[illegible] n superintendent or foreman, t[illegible]ghly familiar with all kinds of [illegible]ing construction, also all kinds [illegible] rigging; particularly well familiar [illegible] govern-ment work; can produce [illegible] at low cost. Address "R. B. 20," [illegible]ineering News, New York. 20-1t

YOUNG MAN (17) desires posit[illegible] with engineering firm in New Yor[illegible]y. No experience, but willing to [illegible] at the bottom. Address "C. 17," [illegible]ineering News, New York. 20-3t

CONTRACTOR'S SUPERINTEN[illegible]T and engineer desires position o[illegible]sponsibility. Thoroughly understands handling of large forces; heavy [illegible]ete and masonry construction, railro[illegible] steam shovel, tunnels and difficu[illegible] harbor work. Past salary, $500 [illegible] month. Small construction work [illegible] desired. Highest references. Address [illegible] 20," Engineering News, New York. 20-1t

Experienced Manager

(35) desires position. Building Co[illegible]uction, New York City, preferred. Replie[illegible] confidential. Address "M. A. 17," Engineer[illegible] News, New York. 20-1t

Situations Open

WANTED—Draftsman to plat railroad maps from survey notes and to do similar work in Maintenance of Way office. New Jersey. State age, experience and salary desired. Submit sample. Address "M. A. 19," Engineering News, New York. 20-1t

Miscellaneous Wants

WANTED—Will pay 10c. each for copies of Engineering News of Sept. 5, 12, 26, Oct. 3, 17, Nov. 7, 1907. Cost of mailing allowed in addition. Address "A. R. T.," c/o Engineering News. 20-1t

HAVE JUST OPENED

A General Consulting Engineering Office

and desire an associate of experience and ability. But little capital required. State age, character, ability and experience in full. When can you report? "CIVIL ENGINEER," 413 State Life Bldg., Indianapolis, Ind. 20-1t

FOR SALE

FOR SALE

8' SHEET IRON BREAK AND SHEARS.

48" ROLLER (heavy) and other sheet-iron tools in first-class condition.

THE BALDWIN ENGINEERING CO.,
107 West 17th St., New York City. 20-1t

FOR SALE.

Will be sold at a sacrifice in order to close out a copartnership.

1 10 × 14 Byers Double Drum Hoisting Engine, almost new.
1 Derrick, complete, mast 38, boom 38, 14 × 14 timber.
1 Ingersoll Drill—Baby.
1 Knowles Plunger Pump, 8" suction.
1 Riley Pump, 8" suction.
1 Coatesville Upright Boiler, 20 HP.
1 Centrifugal Pump, 8" suction.
1 Morris Centrifugal Pump, 8" suction.
1 Gleason & Bailey Pump, 8" suction.
1 McKelvey Concrete Mixer, engine and boiler complete.
4 Dump Buckets.
Lot of small tools.

For further particulars address M. P. QUINN, 612 Fidelity Building, Philadelphia. 20-3t

FOR SALE.

30 1½-yard Western dump cars.
7,000 feet 25-pound steel rail.
000 ties.
1 Jim Crow, with wrench, spikes, bars, bolts, fish plates, etc.
10 1½-yard National dump wagons.
1 Indiana road grader.
16 No. 3 Western wheelers.
11 No. 1 Western drag scrapers.
20 wheelbarrows.
6 plows.
1 Hawkeye stump puller, with 300 feet cable.
1 30 × 65, 12 oz. corral tent.
1 14 × 16, 12 oz. tent.
1 12 × 14, 12 oz. tent, with fly.
1 portable army camp stove; all in first-class condition.

HANRAHAN & LINDQUIST CO.,
403 Chamber of Commerce,
Chicago, Ill. 20-1t

"WANT"

Advertisements in ENGINEERING NEWS cost 1½ cents a word an insertion for "Situations Wanted" and 3 cents a word for "Situations Open" and "Miscellaneous Wants." Read them weekly—they will help you.

Supplement t

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